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RESPONSE ACTION OUTCOME (RAO) STATEMENT REPORT

515 Somerville Avenue
Somerville, Massachusetts 02143-3238

Release Tracking Number (RTN) 3-28548
RTN 3-23606 (Partial)
ACOP-NE-09-3E009

VOLUME 2 of 2

Party Assuming Responsibility for the IRA:

World 115 Nominee Trust
P.O. Box 95025
Newton, MA 02495
Attn.: Mr. Mark Coppola, Trustee

Licensed Site Professional (LSP) for the RAO:

Ms Marcia J. Berger, LSP #4667
Clean Properties, Inc.
111 Boston Post Road
Suite 211
Sudbury, MA 01776

June 3, 2011

ANALYTICAL REPORT

Lab Number:	L0907777
Client:	Sanborn, Head & Associates, Inc. 1 Technology Park Drive Westford, MA 01886
ATTN:	Duncan Wood
Project Name:	515 SOMERVILLE AVE
Project Number:	2315.03
Report Date:	06/22/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0907777-01	NORTH TANK SOLIDS	SOMERVILLE, MA	06/12/09 13:55
L0907777-02	SOUTHERN GAS TANK SOLIDS	SOMERVILLE, MA	06/12/09 13:35

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Volatile Organics
L0907777-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.
In reference to question E:
The WG367369-1/-2 LCS/LCSD recoveries associated with L0907777-01 and -02 are outside the acceptance criteria for several compounds; however, they have been identified as "difficult" analytes. The results of the associated samples are reported; however, all results are considered to have a potentially high bias for

Case Narrative (continued)

Bromomethane (LCS at 134%) and a potentially low bias for Dichlorodifluoromethane (66%/64%).

Metals

In reference to question F:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

Mercury

L0907777-01 was re-analyzed on a dilution for Mercury in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

Non-MCP Related Narratives

Petroleum Hydrocarbons

L0907777-01 has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the dilution required by the elevated concentrations of target compounds in the sample.

The surrogate recovery for L0907777-01 was below the acceptance criteria for o-Terphenyl (0%) due to the dilutions required to quantitate the sample. Re-extraction is not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth A. Simmons

Title: Technical Director/Representative

Date: 06/22/09

ORGANICS

VOLATILES

SAMPLE RESULTS

Lab ID:	L0907777-01	Date Collected:	06/12/09 13:55
Client ID:	NORTH TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	60,8260B		
Analytical Date:	06/18/09 09:47		
Analyst:	BN		
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab					
Methylene chloride	ND		ug/kg	740000	500
1,1-Dichloroethane	ND		ug/kg	110000	500
Chloroform	ND		ug/kg	110000	500
Carbon tetrachloride	ND		ug/kg	74000	500
1,2-Dichloropropane	ND		ug/kg	260000	500
Dibromochloromethane	ND		ug/kg	74000	500
1,1,2-Trichloroethane	ND		ug/kg	110000	500
Tetrachloroethene	ND		ug/kg	74000	500
Chlorobenzene	ND		ug/kg	74000	500
Trichlorofluoromethane	ND		ug/kg	370000	500
1,2-Dichloroethane	ND		ug/kg	74000	500
1,1,1-Trichloroethane	ND		ug/kg	74000	500
Bromodichloromethane	ND		ug/kg	74000	500
trans-1,3-Dichloropropene	ND		ug/kg	74000	500
cis-1,3-Dichloropropene	ND		ug/kg	74000	500
1,1-Dichloropropene	ND		ug/kg	370000	500
Bromoform	ND		ug/kg	300000	500
1,1,2,2-Tetrachloroethane	ND		ug/kg	74000	500
Benzene	ND		ug/kg	74000	500
Toluene	ND		ug/kg	110000	500
Ethylbenzene	130000		ug/kg	74000	500
Chloromethane	ND		ug/kg	370000	500
Bromomethane	ND		ug/kg	150000	500
Vinyl chloride	ND		ug/kg	150000	500
Chloroethane	ND		ug/kg	150000	500
1,1-Dichloroethene	ND		ug/kg	74000	500
trans-1,2-Dichloroethene	ND		ug/kg	110000	500
Trichloroethene	ND		ug/kg	74000	500
1,2-Dichlorobenzene	ND		ug/kg	370000	500
1,3-Dichlorobenzene	ND		ug/kg	370000	500

SAMPLE RESULTS

Lab ID: L0907777-01
Client ID: NORTH TANK SOLIDS
Sample Location: SOMERVILLE, MA
Date Collected: 06/12/09 13:55
Date Received: 06/12/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/kg	370000	500
Methyl tert butyl ether	ND		ug/kg	150000	500
p/m-Xylene	880000		ug/kg	150000	500
o-Xylene	580000		ug/kg	150000	500
cis-1,2-Dichloroethene	ND		ug/kg	74000	500
Dibromomethane	ND		ug/kg	740000	500
1,2,3-Trichloropropane	ND		ug/kg	740000	500
Styrene	ND		ug/kg	150000	500
Dichlorodifluoromethane	ND		ug/kg	740000	500
Acetone	ND		ug/kg	740000	500
Carbon disulfide	ND		ug/kg	3700000	500
2-Butanone	ND		ug/kg	740000	500
4-Methyl-2-pentanone	ND		ug/kg	740000	500
2-Hexanone	ND		ug/kg	740000	500
Bromochloromethane	ND		ug/kg	370000	500
Tetrahydrofuran	ND		ug/kg	1500000	500
2,2-Dichloropropane	ND		ug/kg	370000	500
1,2-Dibromoethane	ND		ug/kg	300000	500
1,3-Dichloropropane	ND		ug/kg	370000	500
1,1,1,2-Tetrachloroethane	ND		ug/kg	74000	500
Bromobenzene	ND		ug/kg	370000	500
n-Butylbenzene	440000		ug/kg	74000	500
sec-Butylbenzene	290000		ug/kg	74000	500
tert-Butylbenzene	ND		ug/kg	370000	500
o-Chlorotoluene	ND		ug/kg	370000	500
p-Chlorotoluene	ND		ug/kg	370000	500
1,2-Dibromo-3-chloropropane	ND		ug/kg	370000	500
Hexachlorobutadiene	ND		ug/kg	370000	500
Isopropylbenzene	160000		ug/kg	74000	500
p-Isopropyltoluene	350000		ug/kg	74000	500
Naphthalene	ND		ug/kg	370000	500
n-Propylbenzene	510000		ug/kg	74000	500
1,2,3-Trichlorobenzene	ND		ug/kg	370000	500
1,2,4-Trichlorobenzene	ND		ug/kg	370000	500
1,3,5-Trimethylbenzene	1800000		ug/kg	370000	500
1,2,4-Trimethylbenzene	5100000		ug/kg	370000	500
Ethyl ether	ND		ug/kg	370000	500

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0907777
Project Number:	2315.03	**Report Date:**	06/22/09

SAMPLE RESULTS

Lab ID:	L0907777-01	Date Collected:	06/12/09 13:55
Client ID:	NORTH TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	**Result**	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
MCP Volatile Organics by 8260B/5035 - Westborough Lab					
Isopropyl Ether	ND		ug/kg	300000	500
Ethyl-Tert-Butyl-Ether	ND		ug/kg	300000	500
Tertiary-Amyl Methyl Ether	ND		ug/kg	300000	500
1,4-Dioxane	ND		ug/kg	37000000	500

Surrogate	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	89		70-130

Project Name: 515 SOMERVILLE AVE
Lab Number: L0907777
Project Number: 2315.03
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907777-02
Client ID: SOUTHERN GAS TANK SOLIDS
Sample Location: SOMERVILLE, MA
Matrix: Soil
Analytical Method: 60,8260B
Analytical Date: 06/18/09 10:22
Analyst: BN
Percent Solids: 92%

Date Collected: 06/12/09 13:35
Date Received: 06/12/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab					
Methylene chloride	ND		ug/kg	680	1
1,1-Dichloroethane	ND		ug/kg	100	1
Chloroform	ND		ug/kg	100	1
Carbon tetrachloride	ND		ug/kg	68	1
1,2-Dichloropropane	ND		ug/kg	240	1
Dibromochloromethane	ND		ug/kg	68	1
1,1,2-Trichloroethane	ND		ug/kg	100	1
Tetrachloroethene	ND		ug/kg	68	1
Chlorobenzene	ND		ug/kg	68	1
Trichlorofluoromethane	ND		ug/kg	340	1
1,2-Dichloroethane	140		ug/kg	68	1
1,1,1-Trichloroethane	ND		ug/kg	68	1
Bromodichloromethane	ND		ug/kg	68	1
trans-1,3-Dichloropropene	ND		ug/kg	68	1
cis-1,3-Dichloropropene	ND		ug/kg	68	1
1,1-Dichloropropene	ND		ug/kg	340	1
Bromoform	ND		ug/kg	270	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	68	1
Benzene	1200		ug/kg	68	1
Toluene	5600		ug/kg	100	1
Ethylbenzene	1500		ug/kg	68	1
Chloromethane	ND		ug/kg	340	1
Bromomethane	ND		ug/kg	140	1
Vinyl chloride	ND		ug/kg	140	1
Chloroethane	ND		ug/kg	140	1
1,1-Dichloroethene	ND		ug/kg	68	1
trans-1,2-Dichloroethene	ND		ug/kg	100	1
Trichloroethene	ND		ug/kg	68	1
1,2-Dichlorobenzene	ND		ug/kg	340	1
1,3-Dichlorobenzene	ND		ug/kg	340	1

SAMPLE RESULTS

Lab ID: L0907777-02
Client ID: SOUTHERN GAS TANK SOLIDS
Sample Location: SOMERVILLE, MA
Date Collected: 06/12/09 13:35
Date Received: 06/12/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/kg	340	1
Methyl tert butyl ether	ND		ug/kg	140	1
p/m-Xylene	6200		ug/kg	140	1
o-Xylene	2600		ug/kg	140	1
cis-1,2-Dichloroethene	ND		ug/kg	68	1
Dibromomethane	ND		ug/kg	680	1
1,2,3-Trichloropropane	ND		ug/kg	680	1
Styrene	ND		ug/kg	140	1
Dichlorodifluoromethane	ND		ug/kg	680	1
Acetone	ND		ug/kg	680	1
Carbon disulfide	ND		ug/kg	3400	1
2-Butanone	ND		ug/kg	680	1
4-Methyl-2-pentanone	ND		ug/kg	680	1
2-Hexanone	ND		ug/kg	680	1
Bromochloromethane	ND		ug/kg	340	1
Tetrahydrofuran	ND		ug/kg	1400	1
2,2-Dichloropropane	ND		ug/kg	340	1
1,2-Dibromoethane	ND		ug/kg	270	1
1,3-Dichloropropane	ND		ug/kg	340	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	68	1
Bromobenzene	ND		ug/kg	340	1
n-Butylbenzene	320		ug/kg	68	1
sec-Butylbenzene	99		ug/kg	68	1
tert-Butylbenzene	ND		ug/kg	340	1
o-Chlorotoluene	ND		ug/kg	340	1
p-Chlorotoluene	ND		ug/kg	340	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	340	1
Hexachlorobutadiene	ND		ug/kg	340	1
Isopropylbenzene	200		ug/kg	68	1
p-Isopropyltoluene	100		ug/kg	68	1
Naphthalene	780		ug/kg	340	1
n-Propylbenzene	440		ug/kg	68	1
1,2,3-Trichlorobenzene	ND		ug/kg	340	1
1,2,4-Trichlorobenzene	ND		ug/kg	340	1
1,3,5-Trimethylbenzene	1100		ug/kg	340	1
1,2,4-Trimethylbenzene	3000		ug/kg	340	1
Ethyl ether	ND		ug/kg	340	1

SAMPLE RESULTS

Lab ID:	L0907777-02	Date Collected:	06/12/09 13:35
Client ID:	SOUTHERN GAS TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics by 8260B/5035 - Westborough Lab					
Isopropyl Ether	ND		ug/kg	270	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	270	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	270	1
1,4-Dioxane	ND		ug/kg	34000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	78		70-130

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/18/09 09:12
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01-02 Batch: WG367369-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/18/09 09:12
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01-02 Batch: WG367369-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/18/09 09:12
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics by 8260B/5035 - Westborough Lab for sample(s): 01-02 Batch: WG367369-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	89		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 515 SOMERVILLE AVE

Project Number: 2315.03

Lab Number: L0907777

Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG367369-1 WG367369-2					
Methylene chloride	76	75	70-130	1	25
1,1-Dichloroethane	87	88	70-130	1	25
Chloroform	85	82	70-130	4	25
Carbon tetrachloride	86	83	70-130	4	25
1,2-Dichloropropane	86	85	70-130	1	25
Dibromochloromethane	99	102	70-130	3	25
1,1,2-Trichloroethane	97	99	70-130	2	25
Tetrachloroethene	110	112	70-130	2	25
Chlorobenzene	104	104	70-130	0	25
Trichlorofluoromethane	88	84	70-130	5	25
1,2-Dichloroethane	90	87	70-130	3	25
1,1,1-Trichloroethane	85	85	70-130	0	25
Bromodichloromethane	87	88	70-130	1	25
trans-1,3-Dichloropropene	98	100	70-130	2	25
cis-1,3-Dichloropropene	75	75	70-130	0	25
1,1-Dichloropropene	85	85	70-130	0	25
Bromoform	116	108	70-130	7	50
1,1,2,2-Tetrachloroethane	112	105	70-130	6	25
Benzene	82	83	70-130	1	25
Toluene	102	102	70-130	0	25
Ethylbenzene	106	107	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 515 SOMERVILLE AVE

Project Number: 2315.03

Lab Number: L0907777

Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG367369-1 WG367369-2					
Chloromethane	72	72	70-130	0	50
Bromomethane	**134**	125	70-130	7	50
Vinyl chloride	83	80	70-130	4	25
Chloroethane	91	88	70-130	3	25
1,1-Dichloroethene	80	74	70-130	8	25
trans-1,2-Dichloroethene	83	83	70-130	0	25
Trichloroethene	73	72	70-130	1	25
1,2-Dichlorobenzene	117	113	70-130	3	25
1,3-Dichlorobenzene	118	116	70-130	2	25
1,4-Dichlorobenzene	119	116	70-130	3	25
Methyl tert butyl ether	95	93	70-130	2	25
p/m-Xylene	110	112	70-130	2	25
o-Xylene	116	118	70-130	2	25
cis-1,2-Dichloroethene	87	86	70-130	1	25
Dibromomethane	86	82	70-130	5	25
1,2,3-Trichloropropane	126	116	70-130	8	25
Styrene	116	117	70-130	1	25
Dichlorodifluoromethane	**66**	**64**	70-130	3	50
Acetone	74	79	70-130	7	50
Carbon disulfide	75	73	70-130	3	50
2-Butanone	126	118	70-130	7	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Number: L0907777
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG367369-1 WG367369-2					
4-Methyl-2-pentanone	95	91	70-130	4	50
2-Hexanone	108	102	70-130	6	50
Bromochloromethane	85	85	70-130	0	25
Tetrahydrofuran	92	91	70-130	1	25
2,2-Dichloropropane	91	91	70-130	0	50
1,2-Dibromoethane	106	103	70-130	3	25
1,3-Dichloropropane	101	101	70-130	0	25
1,1,1,2-Tetrachloroethane	105	108	70-130	3	25
Bromobenzene	117	114	70-130	3	25
n-Butylbenzene	115	112	70-130	3	25
sec-Butylbenzene	112	112	70-130	0	25
tert-Butylbenzene	114	114	70-130	0	25
o-Chlorotoluene	110	107	70-130	3	25
p-Chlorotoluene	112	108	70-130	4	25
1,2-Dibromo-3-chloropropane	107	102	70-130	5	50
Hexachlorobutadiene	121	117	70-130	3	25
Isopropylbenzene	113	110	70-130	3	25
p-Isopropyltoluene	119	118	70-130	1	25
Naphthalene	96	93	70-130	3	25
n-Propylbenzene	111	107	70-130	4	25
1,2,3-Trichlorobenzene	115	113	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03
Lab Number: L0907777
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics by 8260B/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG367369-1 WG367369-2					
1,2,4-Trichlorobenzene	115	115	70-130	0	25
1,3,5-Trimethylbenzene	113	114	70-130	1	25
1,2,4-Trimethylbenzene	116	112	70-130	4	25
Ethyl ether	92	89	70-130	3	25
Isopropyl Ether	91	91	70-130	0	25
Ethyl-Tert-Butyl-Ether	92	93	70-130	1	25
Tertiary-Amyl Methyl Ether	88	87	70-130	1	25
1,4-Dioxane	92	90	70-130	2	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	110		112		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	86		83		70-130

PETROLEUM HYDROCARBONS

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0907777
Project Number:	2315.03	**Report Date:**	06/22/09

SAMPLE RESULTS

Lab ID:	L0907777-01	Date Collected:	06/12/09 13:55
Client ID:	NORTH TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	06/15/09 12:00
Analytical Date:	06/17/09 15:02		
Analyst:	RT		
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab					
TPH	39400000		ug/kg	5290000	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	**0**		40-140

SAMPLE RESULTS

Lab ID:	L0907777-02	Date Collected:	06/12/09 13:35
Client ID:	SOUTHERN GAS TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	06/15/09 12:00
Analytical Date:	06/17/09 10:29		
Analyst:	RT		
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab					
TPH	361000		ug/kg	36200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		40-140

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0907777
Project Number:	2315.03	**Report Date:**	06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method:	1,8015B(M)	Extraction Method:	EPA 3546
Analytical Date:	06/15/09 14:50	Extraction Date:	06/15/09 12:00
Analyst:	RT		

Parameter	Result	Qualifier	Units	RDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG366830-1				
TPH	ND		ug/kg	33300

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	89		40-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03
Lab Number: L0907777
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG366830-2					
TPH	64	-	40-140	-	

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95				40-140

Lab Duplicate Analysis

Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Number: L0907777
Report Date: 06/22/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG366830-4 QC Sample: L0907741-01 Client ID: DUP Sample					
TPH	ND	77800	ug/kg	NC	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		67		40-140

PCBS

SAMPLE RESULTS

Lab ID: L0907777-01
Client ID: NORTH TANK SOLIDS
Sample Location: SOMERVILLE, MA
Matrix: Soil
Analytical Method: 64,8082
Analytical Date: 06/22/09 08:57
Analyst: SH
Percent Solids: 63%

Date Collected: 06/12/09 13:55
Date Received: 06/12/09
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/19/09 22:00
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/20/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1242	450		ug/kg	52.9	1
Aroclor 1254	525		ug/kg	52.9	1
Aroclor 1260	231		ug/kg	52.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	76		30-150	B

SAMPLE RESULTS

Lab ID:	L0907777-01	Date Collected:	06/12/09 13:55
Client ID:	NORTH TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	64,8082	Extraction Date:	06/19/09 22:00
Analytical Date:	06/22/09 08:57	Cleanup Method1:	EPA 3665A
Analyst:	SH	Cleanup Date1:	06/20/09
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1016	ND		ug/kg	52.9	1
Aroclor 1221	ND		ug/kg	52.9	1
Aroclor 1232	ND		ug/kg	52.9	1
Aroclor 1248	ND		ug/kg	52.9	1
Aroclor 1262	ND		ug/kg	52.9	1
Aroclor 1268	ND		ug/kg	52.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	76		30-150	B

SAMPLE RESULTS

Lab ID:	L0907777-02	Date Collected:	06/12/09 13:35
Client ID:	SOUTHERN GAS TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	64,8082	Extraction Date:	06/15/09 15:33
Analytical Date:	06/16/09 20:46	Cleanup Method1:	EPA 3665A
Analyst:	SH	Cleanup Date1:	06/15/09
Percent Solids:	92%		

Parameter	**Result**	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
MCP Polychlorinated Biphenyls - Westborough Lab					
Aroclor 1016	ND		ug/kg	36.2	1
Aroclor 1221	ND		ug/kg	36.2	1
Aroclor 1232	ND		ug/kg	36.2	1
Aroclor 1242	ND		ug/kg	36.2	1
Aroclor 1248	ND		ug/kg	36.2	1
Aroclor 1254	ND		ug/kg	36.2	1
Aroclor 1260	ND		ug/kg	36.2	1
Aroclor 1262	ND		ug/kg	36.2	1
Aroclor 1268	ND		ug/kg	36.2	1

Surrogate	**% Recovery**	**Qualifier**	**Acceptance Criteria**	**Column**
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	74		30-150	B

Method Blank Analysis
Batch Quality Control

Analytical Method: 64,8082
Analytical Date: 06/16/09 19:57
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 06/15/09 15:33
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/15/09

Parameter	Result	Qualifier	Units	RDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 02 Batch: WG366888-1				
Aroclor 1016	ND		ug/kg	33.3
Aroclor 1221	ND		ug/kg	33.3
Aroclor 1232	ND		ug/kg	33.3
Aroclor 1242	ND		ug/kg	33.3
Aroclor 1248	ND		ug/kg	33.3
Aroclor 1254	ND		ug/kg	33.3
Aroclor 1260	ND		ug/kg	33.3
Aroclor 1262	ND		ug/kg	33.3
Aroclor 1268	ND		ug/kg	33.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0907777
Project Number:	2315.03	**Report Date:**	06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method:	64,8082	Extraction Method:	EPA 3546
Analytical Date:	06/22/09 09:09	Extraction Date:	06/19/09 22:00
Analyst:	SH	Cleanup Method1:	EPA 3665A
		Cleanup Date1:	06/20/09

Parameter	Result	Qualifier	Units	RDL
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01 Batch: WG367683-1				
Aroclor 1016	ND		ug/kg	33.3
Aroclor 1221	ND		ug/kg	33.3
Aroclor 1232	ND		ug/kg	33.3
Aroclor 1242	ND		ug/kg	33.3
Aroclor 1248	ND		ug/kg	33.3
Aroclor 1254	ND		ug/kg	33.3
Aroclor 1260	ND		ug/kg	33.3
Aroclor 1262	ND		ug/kg	33.3
Aroclor 1268	ND		ug/kg	33.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	105		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Number: L0907777
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 02 Batch: WG366888-2 WG366888-3					
Aroclor 1016	85	83	40-140	2	30
Aroclor 1260	83	78	40-140	6	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		72		30-150	A
Decachlorobiphenyl	93		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		72		30-150	B
Decachlorobiphenyl	96		84		30-150	B

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01 Batch: WG367683-2 WG367683-3					
Aroclor 1016	69	83	40-140	18	30
Aroclor 1260	64	75	40-140	16	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		76		30-150	A
Decachlorobiphenyl	78		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		80		30-150	B
Decachlorobiphenyl	95		106		30-150	B

METALS

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0907777
Project Number:	2315.03	**Report Date:**	06/22/09

SAMPLE RESULTS

Lab ID:	L0907777-01	Date Collected:	06/12/09 13:55
Client ID:	NORTH TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab										
Arsenic, Total	32		mg/kg	0.63	1	06/15/09 16:15	06/17/09 16:00	EPA 3050B	60,6010B	MG
Cadmium, Total	68		mg/kg	0.63	1	06/15/09 16:15	06/17/09 16:00	EPA 3050B	60,6010B	MG
Chromium, Total	330		mg/kg	0.63	1	06/15/09 16:15	06/17/09 16:00	EPA 3050B	60,6010B	MG
Lead, Total	2200		mg/kg	3.2	1	06/15/09 16:15	06/17/09 16:00	EPA 3050B	60,6010B	MG
Mercury, Total	5.1	E	mg/kg	0.12	1	06/15/09 22:10	06/16/09 13:15	EPA 7471A	64,7471A	EZ
Mercury, Total	5.6		mg/kg	0.61	5	06/15/09 22:10	06/16/09 13:52	EPA 7471A	64,7471A	EZ

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0907777
Project Number:	2315.03	**Report Date:**	06/22/09

SAMPLE RESULTS

Lab ID:	L0907777-02	Date Collected:	06/12/09 13:35
Client ID:	SOUTHERN GAS TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab										
Arsenic, Total	5.4		mg/kg	0.43	1	06/15/09 16:15	06/17/09 16:25	EPA 3050B	60,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	1	06/15/09 16:15	06/17/09 16:25	EPA 3050B	60,6010B	MG
Chromium, Total	13		mg/kg	0.43	1	06/15/09 16:15	06/17/09 16:25	EPA 3050B	60,6010B	MG
Lead, Total	120		mg/kg	2.1	1	06/15/09 16:15	06/17/09 16:25	EPA 3050B	60,6010B	MG
Mercury, Total	ND		mg/kg	0.09	1	06/15/09 22:10	06/16/09 13:18	EPA 7471A	64,7471A	EZ

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG366911-1									
Arsenic, Total	ND		mg/kg	0.40	1	06/15/09 16:15	06/17/09 15:32	60,6010B	MG
Cadmium, Total	ND		mg/kg	0.40	1	06/15/09 16:15	06/17/09 15:32	60,6010B	MG
Chromium, Total	ND		mg/kg	0.40	1	06/15/09 16:15	06/17/09 15:32	60,6010B	MG
Lead, Total	ND		mg/kg	2.0	1	06/15/09 16:15	06/17/09 15:32	60,6010B	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG366946-1									
Mercury, Total	ND		mg/kg	0.08	1	06/15/09 22:10	06/16/09 12:51	64,7471A	EZ

Prep Information

Digestion Method: EPA 7471A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Number: L0907777
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG366911-2 WG366911-3					
Arsenic, Total	101	101	75-125	0	30
Cadmium, Total	102	104	75-125	2	30
Chromium, Total	102	101	75-125	1	30
Lead, Total	102	104	75-125	2	30
MCP Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG366946-2 WG366946-3					
Mercury, Total	106	111	75-125	5	30

INORGANICS
&
MISCELLANEOUS

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0907777
Project Number:	2315.03	**Report Date:**	06/22/09

SAMPLE RESULTS

Lab ID:	L0907777-01	Date Collected:	06/12/09 13:55
Client ID:	NORTH TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Paste
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	**Result**	**Date Analyzed**	**Analytical Method**	**Analyst**
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/12/09 17:25	1,1030	TH

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0907777
Project Number:	2315.03	**Report Date:**	06/22/09

SAMPLE RESULTS

Lab ID:	L0907777-02	Date Collected:	06/12/09 13:35
Client ID:	SOUTHERN GAS TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Dry Sand
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/12/09 17:25	1,1030	TH

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Number: L0907777
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907777-01
Client ID: NORTH TANK SOLIDS
Sample Location: SOMERVILLE, MA
Matrix: Soil

Date Collected: 06/12/09 13:55
Date Received: 06/12/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Solids, Total	63		%	0.10	1	-	06/16/09 10:09	30,2540G	MC
pH	9.2		SU	-	1	-	06/15/09 20:50	1,9045C	BH
Cyanide, Reactive	ND		mg/kg	10	1	-	06/17/09 15:00	1,7.3	TH
Sulfide, Reactive	ND		mg/kg	10	1	-	06/17/09 15:00	1,7.3	TH

SAMPLE RESULTS

Lab ID: L0907777-02
Client ID: SOUTHERN GAS TANK SOLIDS
Sample Location: SOMERVILLE, MA
Matrix: Soil

Date Collected: 06/12/09 13:35
Date Received: 06/12/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Solids, Total	92		%	0.10	1	-	06/16/09 10:09	30,2540G	MC
pH	11.6		SU	-	1	-	06/15/09 20:50	1,9045C	BH
Cyanide, Reactive	ND		mg/kg	10	1	-	06/17/09 15:00	1,7.3	TH
Sulfide, Reactive	ND		mg/kg	10	1	-	06/17/09 15:00	1,7.3	TH

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG367281-1									
Sulfide, Reactive	ND		mg/kg	10	1	-	06/17/09 15:00	1,7.3	TH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG367282-1									
Cyanide, Reactive	ND		mg/kg	10	1	-	06/17/09 15:00	1,7.3	TH

Lab Control Sample Analysis
Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03
Lab Number: L0907777
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG366945-1					
pH	101	-		-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG367281-2					
Sulfide, Reactive	80	-	60-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG367282-2					
Cyanide, Reactive	67	-	30-125	-	40

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L0907777
Report Date: 06/22/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG366945-2 QC Sample: L0907741-06 Client ID: DUP Sample					
pH	8.0	8.0	SU	0	
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG366988-1 QC Sample: L0907757-01 Client ID: DUP Sample					
Solids, Total	35	37	%	6	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG367281-3 QC Sample: L0907961-01 Client ID: DUP Sample					
Sulfide, Reactive	ND	ND	mg/kg	NC	40
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG367282-3 QC Sample: L0907961-01 Client ID: DUP Sample					
Cyanide, Reactive	ND	ND	mg/kg	NC	40

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0907777-01A	Vial MeOH preserved	A	N/A	4.5	Y	Absent	MCP-8260HLW(14)
L0907777-01B	Vial water preserved	A	N/A	4.5	Y	Absent	MCP-8260HLW(14)
L0907777-01C	Vial water preserved	A	N/A	4.5	Y	Absent	MCP-8260HLW(14)
L0907777-01D	Amber 250ml unpreserved	A	N/A	4.5	Y	Absent	IGNIT-1030(14),REACTS(14),MCP-AS-6010T(180),TS(7),MCP-PB-6010T(180),PH-9045(1),MCP-7471T(28),MCP-CD-6010T(180),MCP-CR-6010T(180),REACTCN(14)
L0907777-01E	Amber 250ml unpreserved	A	N/A	4.5	Y	Absent	MCP-8082-04(14),TPH-DRO-D(14)
L0907777-02A	Vial MeOH preserved	A	N/A	4.5	Y	Absent	MCP-8260HLW(14)
L0907777-02B	Vial water preserved	A	N/A	4.5	Y	Absent	MCP-8260HLW(14)
L0907777-02C	Vial water preserved	A	N/A	4.5	Y	Absent	MCP-8260HLW(14)
L0907777-02D	Amber 250ml unpreserved	A	N/A	4.5	Y	Absent	IGNIT-1030(14),REACTS(14),MCP-AS-6010T(180),TS(7),MCP-PB-6010T(180),PH-9045(1),MCP-7471T(28),MCP-CD-6010T(180),MCP-CR-6010T(180),REACTCN(14)
L0907777-02E	Amber 250ml unpreserved	A	N/A	4.5	Y	Absent	MCP-8082-04(14),TPH-DRO-D(14)

*Hold days indicated by values in parentheses

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

*****	· The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	· Spectra identified as "Aldol Condensation Product".
B	· The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	· Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	· Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	· The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	· The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	· The RPD between the results for the two columns exceeds the method-specified criteria.
R	· Analytical results are from sample re-analysis.
RE	· Analytical results are from sample re-extraction.
J	· Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 17, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Nitrite-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl,Ti,V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)
600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.2/.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500Cl-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO30F, EPA 354.1, SM4500-NO2-B, EPA 365.2, SM4500P-E, EPA 160.3, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)
Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 06/12/09

ALPHA Job #: L0907777

ALPHA ANALYTICAL
WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head, + Assoc
Address: 1 Technology Park Dr
Westford MA 01886
Phone: 978-392-0900
Fax: 978-392-0987
Email: dwood@sanbornhead.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 515 Somerville Ave
Project Location: Somerville, MA
Project #: 2315.03
Project Manager: Duncan Wood
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 06/19/09 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MGP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS 8260 (Low)	8260 (High)	TPH-DRO-D, PCBs, pH, Reac, Flash	TCRA5	Sample Specific Comments	TOTAL # BOTTLES
7777 1	North Tank Solids	6/12/09	13:55	S	SAW	X	X	X	X		5
2	Southern Gas Tank Solids	6/12/09	13:35	S	SAW	X	X	X	X		5
	Temp Blank										1
Container Type						AV	AV	A	A		
Preservative						O	F	A	A		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	6/12/09 16:10		6/12/09 16:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0908376-01	NORTH TANK SOLIDS	SOMERVILLE, MA	06/12/09 13:55
L0908376-02	SOUTHERN GAS TANK SOLIDS	SOMERVILLE, MA	06/12/09 13:35

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Report Submission
All MCP required questions were answered with affirmative responses; therefore, there are no relevant data issues to discuss.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 06/29/09

METALS

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0908376
Project Number:	2315.03	**Report Date:**	06/29/09

SAMPLE RESULTS

Lab ID:	L0908376-01	Date Collected:	06/12/09 13:55
Client ID:	NORTH TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	06/24/09 15:15

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab										
Cadmium, TCLP	0.35		mg/l	0.10	1	06/26/09 14:00	06/26/09 18:00	EPA 3015	1,6010B	AI
Chromium, TCLP	0.23		mg/l	0.20	1	06/26/09 14:00	06/26/09 18:00	EPA 3015	1,6010B	AI
Lead, TCLP	0.60		mg/l	0.50	1	06/26/09 14:00	06/26/09 18:00	EPA 3015	1,6010B	AI
Mercury, TCLP	ND		mg/l	0.0010	1	06/25/09 19:00	06/26/09 12:57	EPA 7470A	1,7470A	EZ

Project Name:	515 SOMERVILLE AVE	**Lab Number:**	L0908376
Project Number:	2315.03	**Report Date:**	06/29/09

SAMPLE RESULTS

Lab ID:	L0908376-02	Date Collected:	06/12/09 13:35
Client ID:	SOUTHERN GAS TANK SOLIDS	Date Received:	06/12/09
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	06/24/09 15:15

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab										
Lead, TCLP	ND		mg/l	0.50	1	06/26/09 14:00	06/26/09 18:18	EPA 3015	1,6010B	AI

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG368472-1									
Mercury, TCLP	ND		mg/l	0.0010	1	06/25/09 19:00	06/26/09 12:43	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

TCLP Extraction Date: 06/24/09 15:15

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG368620-1									
Cadmium, TCLP	ND		mg/l	0.10	1	06/26/09 14:00	06/26/09 17:51	1,6010B	AI
Chromium, TCLP	ND		mg/l	0.20	1	06/26/09 14:00	06/26/09 17:51	1,6010B	AI
Lead, TCLP	ND		mg/l	0.50	1	06/26/09 14:00	06/26/09 17:51	1,6010B	AI

Prep Information

Digestion Method: EPA 3015

TCLP Extraction Date: 06/24/09 15:15

Lab Control Sample Analysis

Batch Quality Control

Project Name: 515 SOMERVILLE AVE

Project Number: 2315.03

Lab Number: L0908376

Report Date: 06/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG368472-2					
Mercury, TCLP	110	-	80-120	-	
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG368620-2					
Cadmium, TCLP	100	-	75-125	-	20
Chromium, TCLP	94	-	75-125	-	20
Lead, TCLP	96	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Number: L0908376
Report Date: 06/29/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01 QC Batch ID: WG368472-4 QC Sample: L0908376-01 Client ID: NORTH TANK SOLIDS									
Mercury, TCLP	ND	0.005	0.0062	124	-	-	70-130	-	20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG368620-4 QC Sample: L0908376-01 Client ID: NORTH TANK SOLIDS									
Cadmium, TCLP	0.35	10	10	96	-	-	75-125	-	20
Chromium, TCLP	0.23	10	9.4	92	-	-	75-125	-	20
Lead, TCLP	0.60	10	10	94	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Number: L0908376
Report Date: 06/29/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01 QC Batch ID: WG368472-3 QC Sample: L0908376-01 Client ID: NORTH TANK SOLIDS					
Mercury, TCLP	ND	ND	mg/l	NC	20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG368620-3 QC Sample: L0908376-01 Client ID: NORTH TANK SOLIDS					
Cadmium, TCLP	0.35	0.34	mg/l	3	20
Chromium, TCLP	0.23	0.22	mg/l	4	20
Lead, TCLP	0.60	0.56	mg/l	7	20

Project Name: 515 SOMERVILLE AVE
Project Number: 2315.03

Lab Number: L0908376
Report Date: 06/29/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0908376-01A	Amber 250ml unpreserved	A	N/A	4.5	Y	Absent	-
L0908376-01X	Plastic 250ml HNO3 preserved spl	A	<2	4.5	Y	Absent	CD-CI(180),HG-C(28),PB-CI(180),CR-CI(180)
L0908376-02A	Amber 250ml unpreserved	A	N/A	4.5	Y	Absent	-
L0908376-02X	Plastic 250ml HNO3 preserved spl	A	<2	4.5	Y	Absent	PB-CI(180)

*Hold days indicated by values in parentheses

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

*	· The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	· Spectra identified as "Aldol Condensation Product".
B	· The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	· Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	· Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	· The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	· The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	· The RPD between the results for the two columns exceeds the method-specified criteria.
R	· Analytical results are from sample re-analysis.
RE	· Analytical results are from sample re-extraction.
J	· Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 24, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Nitrite-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl,Ti,V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)
600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.2/.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500Cl-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO30F, EPA 354.1, SM4500-NO2-B, EPA 365.2, SM4500P-E, EPA 160.3, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)
Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Utah Department of Health Certificate/Lab ID: AAMA. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA
TEL 508-898-9220
FAX 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 6/12/09

ALPHA Job #: L0908376

Client Information

Client: Sanborn, Head & Assoc
Address:
Phone:
Fax
Email:
☐ These samples have been previously analyzed by Apha

Project Information

Project Name: 515 Somerville Ave
Project Location: Somerville, MA
Project #: 2315.03
Project Manager: Duncan Wood
ALPHA Quote #

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!) 4day
Date Due: 6/29/09
Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info
PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
Relog of L0907777-01

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: TCLP Cd,Cr,Pb,Hg	TCLP Pb	Sample Specific Comments	TOTAL # BOTTLES
8376-01	North Tank Solids	6/12/09	1355	S		X			
8376-02	Southern Gas Tank Solids	6/12/09	13:35	S			X		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	
Preservative	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
			6/12/09 1610

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 06/12/09

ALPHA Job #: L0907777

ALPHA ANALYTICAL

WESTBORO, MA
TEL 508-898-9220
FAX: 508-898-9193

MANSFIELD MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Sanborn, Head, + Assoc
Address: 1 Technology Park Dr
Westford MA 01886
Phone: 978-392-0900
Fax: 978-392-0987
Email: dwood@sanbornhead.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 515 Somerville Ave
Project Location: Somerville, MA
Project #: 2315.03
Project Manager: Duncan Wood
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 06/19/09 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MCP
Criteria: GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: 8260 (Low)	8260 (High)	TPH-DRO-D, Ab, PH, Red, Red,	TCRA5	Sample Specific Comments	TOTAL # BOTTLES
7777 1	North Tank Solids	6/12/09	13:55	S	SAW	X	X	X	X		5
2	Southern Gas Tank Solids	6/12/09	13:35	S	SAW	X	X	X	X		5
	Temp Blank										1
Container Type						AV	AV	A	A		
Preservative						O	F	A	A		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Seth Wood	6/12/09 16:10		6/12/09 16:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

NETLAB

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number V0219-20

Prepared for:

Attn: Robert Houghton
Action Environmental, Inc.
184 Riverview Ave.
Waltham, MA 02453

Report Date: March 1, 2010

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 31

ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc. Project #: 3120

Project Location: 515 Somerville Avenue, Somerville MA RTN[1]:

This form provides certifications for the following data set: V0219-20

Sample Matrices: Groundwater ( ) Soil/Sediment (x) Drinking Water ( ) Other:

SW-846 Methods Used	8260B (x)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M[2] ( )
	8082 ( )	8021B ( )	EPH (x)	7000 S[3] ( )	Other: ( )

1 List Release Tracking Number (RTN), if known
2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S – SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, and C is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes (X) No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (X) No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No[1] ( ) Not Applicable ( )
D	***VPH and EPH Methods only***: Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes (X) No[1] ( )

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (X) No[1] ( )
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (X) No[1] ( )

[1]All NO answers must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 3/1/2010

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on February 19, 2010. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to sample(s) provided to us by the client which are indicated on t he custody record. The case number for this sample submission is V0219-20.

Custody records are included in this report.

Site: 515 Somerville Avenue, Somerville, MA

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
AE101-0/3	2/18/10	Soil	Table II
AE101-3/6.5	2/18/10	Soil	Table II
AE102-0/3	2/18/10	Soil	Table II
AE102-3/6	2/18/10	Soil	Table II
AE103-0/3	2/18/10	Soil	Table II
AE104-0/3	2/18/10	Soil	Table II
AE104-3/6	2/18/10	Soil	Table II
AE105-1/3	2/18/10	Soil	Table II
AE106-3/6	2/18/10	Soil	Table II
AE107-0/3	2/18/10	Soil	Table II
AE107-3-5.5	2/18/10	Soil	Table II
AE108-0/3	2/18/10	Soil	Table II
AE108-3/6	2/18/10	Soil	Table II
AE109-12/15	2/18/10	Soil	Table II, III

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
EPH	NA	**

TABLE III, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Volatile Organic Compounds	5030B	8260B

These methods are documented in:

*Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MADEP

**Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MADEP.

CASE NARRATIVE:

Sample Receipt:

No sample for ms/msd/duplicate analysis was supplied. No trip blank was supplied. No field blank was supplied y. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits.)

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

EPH:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Volatiles:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

RESULTS: EXTRACTABLE PETROLEUM HYDROCARBONS

Results for EPH analysis are presented in the following section. Each page is electronically signed.

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE101-0/3
Method for Target Analytes:	Lab ID	V0219-20
EPH Surrogate Standards	Date Collected	2/18/10
Aliphatic: Chlorooctadecane	Date Received	2/19/10
Aromatic: o-Terphenyl	Date Extracted	2/25/10
EPH Fractionation Surrogates	Date Analyzed	2/25/10,2/26/10
2-Fluorobiphenyl	Dilution Factor	1X
/ 2-Bromonaphthalene	% Moisture (soil)	8.92

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		10.9	mg/Kg	<10.9
Diesel PAH Analytes	Naphthalene	0.27	mg/Kg	<0.27
	2-Methylnaphthalene	0.27	mg/Kg	<0.27
	Phenanthrene	0.27	mg/Kg	<0.27
	Acenaphthylene	0.27	mg/Kg	<0.27
Other Target PAH Analytes	Acenaphthene	0.27	mg/Kg	<0.27
	Fluorene	0.27	mg/Kg	<0.27
	Anthracene	0.27	mg/Kg	<0.27
	Fluoranthene	0.27	mg/Kg	<0.27
	Pyrene	0.27	mg/Kg	<0.27
	Benzo(a)anthracene	0.27	mg/Kg	<0.27
	Chrysene	0.27	mg/Kg	<0.27
	Benzo(b)fluoranthene	0.27	mg/Kg	<0.27
	Benzo(k)fluoranthene	0.27	mg/Kg	<0.27
	Benzo(a)pyrene	0.27	mg/Kg	<0.27
	Indeno(1,2,3-cd)pyrene	0.27	mg/Kg	<0.27
	Dibenzo(a,h)anthracene	0.27	mg/Kg	<0.27
	Benzo(g,h,i)perylene	0.27	mg/Kg	<0.27
C9-C18 Aliphatic Hydrocarbons[1]		10.9	mg/Kg	<10.9
C19-C36 Aliphatic Hydrocarbons[1]		10.9	mg/Kg	<10.9
C11-C22 Aromatic Hydrocarbons[1,2]		10.9	mg/Kg	<10.9
Aliphatic Surrogate % Recovery				59
Aromatic Surrogate % Recovery				81
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				88
Fractionation Surrogate % Recovery				73
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE101-3/6.5
Method for Target Analytes:	Lab ID	V0219-20
EPH Surrogate Standards	Date Collected	2/18/10
Aliphatic: Chlorooctadecane	Date Received	2/19/10
Aromatic: o-Terphenyl	Date Extracted	2/25/10
EPH Fractionation Surrogates	Date Analyzed	2/25/10, 2/26/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	8.24

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		10.7	mg/Kg	25.8
Diesel PAH Analytes	Naphthalene	0.27	mg/Kg	0.3
	2-Methylnaphthalene	0.27	mg/Kg	<0.27
	Phenanthrene	0.27	mg/Kg	<0.27
	Acenaphthylene	0.27	mg/Kg	<0.27
Other Target PAH Analytes	Acenaphthene	0.27	mg/Kg	<0.27
	Fluorene	0.27	mg/Kg	<0.27
	Anthracene	0.27	mg/Kg	<0.27
	Fluoranthene	0.27	mg/Kg	<0.27
	Pyrene	0.27	mg/Kg	<0.27
	Benzo(a)anthracene	0.27	mg/Kg	<0.27
	Chrysene	0.27	mg/Kg	<0.27
	Benzo(b)fluoranthene	0.27	mg/Kg	<0.27
	Benzo(k)fluoranthene	0.27	mg/Kg	<0.27
	Benzo(a)pyrene	0.27	mg/Kg	<0.27
	Indeno(1,2,3-cd)pyrene	0.27	mg/Kg	<0.27
	Dibenzo(a,h)anthracene	0.27	mg/Kg	<0.27
	Benzo(g,h,i)perylene	0.27	mg/Kg	<0.27
C9-C18 Aliphatic Hydrocarbons[1]		10.7	mg/Kg	<10.7
C19-C36 Aliphatic Hydrocarbons[1]		10.7	mg/Kg	<10.7
C11-C22 Aromatic Hydrocarbons[1,2]		10.7	mg/Kg	25.5
Aliphatic Surrogate % Recovery				48
Aromatic Surrogate % Recovery				73
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				83
Fractionation Surrogate % Recovery				50
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE102-0/3
Method for Target Analytes:	Lab ID	V0219-20
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	2/18/10
	Date Received	2/19/10
	Date Extracted	2/25/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene	Date Analyzed	2/25/10 ,2/26/10
	Dilution Factor	1X
	% Moisture (soil)	9.99

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		10.8	mg/Kg	27.2
Diesel PAH Analytes	Naphthalene	0.27	mg/Kg	<0.27
	2-Methylnaphthalene	0.27	mg/Kg	<0.27
	Phenanthrene	0.27	mg/Kg	0.5
	Acenaphthylene	0.27	mg/Kg	<0.27
Other Target PAH Analytes	Acenaphthene	0.27	mg/Kg	<0.27
	Fluorene	0.27	mg/Kg	<0.27
	Anthracene	0.27	mg/Kg	<0.27
	Fluoranthene	0.27	mg/Kg	0.9
	Pyrene	0.27	mg/Kg	1.0
	Benzo(a)anthracene	0.27	mg/Kg	0.5
	Chrysene	0.27	mg/Kg	0.6
	Benzo(b)fluoranthene	0.27	mg/Kg	0.5
	Benzo(k)fluoranthene	0.27	mg/Kg	0.4
	Benzo(a)pyrene	0.27	mg/Kg	0.4
	Indeno(1,2,3-cd)pyrene	0.27	mg/Kg	<0.27
	Dibenzo(a,h)anthracene	0.27	mg/Kg	<0.27
	Benzo(g,h,i)perylene	0.27	mg/Kg	<0.27
C9-C18 Aliphatic Hydrocarbons[1]		10.8	mg/Kg	<10.8
C19-C36 Aliphatic Hydrocarbons[1]		10.8	mg/Kg	<10.8
C11-C22 Aromatic Hydrocarbons[1,2]		10.8	mg/Kg	<22.4
Aliphatic Surrogate % Recovery				71
Aromatic Surrogate % Recovery				96
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				98
Fractionation Surrogate % Recovery				99
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE102-3/6
Method for Target Analytes:	Lab ID	V0219-20
EPH Surrogate Standards	Date Collected	2/18/10
Aliphatic: Chlorooctadecane	Date Received	2/19/10
Aromatic: o-Terphenyl	Date Extracted	2/25/10
EPH Fractionation Surrogates	Date Analyzed	2/25/10, 2/26/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	11.48

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		11.0	mg/Kg	<11.0
Diesel PAH Analytes	Naphthalene	0.28	mg/Kg	<0.28
	2-Methylnaphthalene	0.28	mg/Kg	<0.28
	Phenanthrene	0.28	mg/Kg	<0.28
	Acenaphthylene	0.28	mg/Kg	<0.28
Other Target PAH Analytes	Acenaphthene	0.28	mg/Kg	<0.28
	Fluorene	0.28	mg/Kg	<0.28
	Anthracene	0.28	mg/Kg	<0.28
	Fluoranthene	0.28	mg/Kg	<0.28
	Pyrene	0.28	mg/Kg	<0.28
	Benzo(a)anthracene	0.28	mg/Kg	<0.28
	Chrysene	0.28	mg/Kg	<0.28
	Benzo(b)fluoranthene	0.28	mg/Kg	<0.28
	Benzo(k)fluoranthene	0.28	mg/Kg	<0.28
	Benzo(a)pyrene	0.28	mg/Kg	<0.28
	Indeno(1,2,3-cd)pyrene	0.28	mg/Kg	<0.28
	Dibenzo(a,h)anthracene	0.28	mg/Kg	<0.28
	Benzo(g,h,i)perylene	0.28	mg/Kg	<0.28
C9-C18 Aliphatic Hydrocarbons[1]		11.0	mg/Kg	<11.0
C19-C36 Aliphatic Hydrocarbons[1]		11.0	mg/Kg	<11.0
C11-C22 Aromatic Hydrocarbons[1,2]		11.0	mg/Kg	<11.0
Aliphatic Surrogate % Recovery				63
Aromatic Surrogate % Recovery				93
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				106
Fractionation Surrogate % Recovery				73
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ____________________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE103-0/3
Method for Target Analytes:	Lab ID	V0219-20
EPH Surrogate Standards	Date Collected	2/18/10
Aliphatic: Chlorooctadecane	Date Received	2/19/10
Aromatic: o-Terphenyl	Date Extracted	2/25/10
EPH Fractionation Surrogates	Date Analyzed	2/25/10, 2/26/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	17.01

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		12.0	mg/Kg	17.4
Diesel PAH Analytes	Naphthalene	0.30	mg/Kg	<0.30
	2-Methylnaphthalene	0.30	mg/Kg	<0.30
	Phenanthrene	0.30	mg/Kg	<0.30
	Acenaphthylene	0.30	mg/Kg	<0.30
Other Target PAH Analytes	Acenaphthene	0.30	mg/Kg	<0.30
	Fluorene	0.30	mg/Kg	<0.30
	Anthracene	0.30	mg/Kg	<0.30
	Fluoranthene	0.30	mg/Kg	0.50
	Pyrene	0.30	mg/Kg	0.60
	Benzo(a)anthracene	0.30	mg/Kg	0.30
	Chrysene	0.30	mg/Kg	0.40
	Benzo(b)fluoranthene	0.30	mg/Kg	0.30
	Benzo(k)fluoranthene	0.30	mg/Kg	0.30
	Benzo(a)pyrene	0.30	mg/Kg	0.30
	Indeno(1,2,3-cd)pyrene	0.30	mg/Kg	<0.30
	Dibenzo(a,h)anthracene	0.30	mg/Kg	<0.30
	Benzo(g,h,i)perylene	0.30	mg/Kg	<0.30
C9-C18 Aliphatic Hydrocarbons[1]		12.0	mg/Kg	<12.0
C19-C36 Aliphatic Hydrocarbons[1]		12.0	mg/Kg	<12.0
C11-C22 Aromatic Hydrocarbons[1,2]		12.0	mg/Kg	14.7
Aliphatic Surrogate % Recovery				52
Aromatic Surrogate % Recovery				82
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				97
Fractionation Surrogate % Recovery				79
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE104-0/3
Method for Target Analytes:		Lab ID		V0219/20
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected Date Received Date Extracted		2/18/10 2/19/10 2/25/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene		Date Analyzed Dilution Factor % Moisture (soil)		2/25/10, 2/26/10 1X 10.88
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		11.2	mg/Kg	16.5
Diesel PAH Analytes	Naphthalene	0.28	mg/Kg	<0.28
	2-Methylnaphthalene	0.28	mg/Kg	<0.28
	Phenanthrene	0.28	mg/Kg	0.40
	Acenaphthylene	0.28	mg/Kg	<0.25
Other Target PAH Analytes	Acenaphthene	0.28	mg/Kg	<0.25
	Fluorene	0.28	mg/Kg	<0.25
	Anthracene	0.28	mg/Kg	<0.25
	Fluoranthene	0.28	mg/Kg	0.60
	Pyrene	0.28	mg/Kg	0.60
	Benzo(a)anthracene	0.28	mg/Kg	0.30
	Chrysene	0.28	mg/Kg	0.30
	Benzo(b)fluoranthene	0.28	mg/Kg	0.30
	Benzo(k)fluoranthene	0.28	mg/Kg	0.30
	Benzo(a)pyrene	0.28	mg/Kg	0.30
	Indeno(1,2,3-cd)pyrene	0.28	mg/Kg	<0.28
	Dibenzo(a,h)anthracene	0.28	mg/Kg	<0.28
	Benzo(g,h,i)perylene	0.28	mg/Kg	<0.28
C9-C18 Aliphatic Hydrocarbons[1]		11.2	mg/Kg	<11.2
C19-C36 Aliphatic Hydrocarbons[1]		11.2	mg/Kg	<11.2
C11-C22 Aromatic Hydrocarbons[1,2]		11.2	mg/Kg	13.4
Aliphatic Surrogate % Recovery				48
Aromatic Surrogate % Recovery				59
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				68
Fractionation Surrogate % Recovery				52
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE104-3/6
Method for Target Analytes:		Lab ID		V0219-20
EPH Surrogate Standards		Date Collected		2/18/10
Aliphatic: Chlorooctadecane		Date Received		2/19/10
Aromatic: o-Terphenyl		Date Extracted		2/25/10
EPH Fractionation Surrogates		Date Analyzed		2/25/10, 2/26/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		11.35
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		11.0	mg/Kg	<11.0
Diesel PAH Analytes	Naphthalene	0.28	mg/Kg	<0.28
	2-Methylnaphthalene	0.28	mg/Kg	<0.28
	Phenanthrene	0.28	mg/Kg	<0.28
	Acenaphthylene	0.28	mg/Kg	<0.28
Other Target PAH Analytes	Acenaphthene	0.28	mg/Kg	<0.28
	Fluorene	0.28	mg/Kg	<0.28
	Anthracene	0.28	mg/Kg	<0.28
	Fluoranthene	0.28	mg/Kg	<0.28
	Pyrene	0.28	mg/Kg	<0.28
	Benzo(a)anthracene	0.28	mg/Kg	<0.28
	Chrysene	0.28	mg/Kg	<0.28
	Benzo(b)fluoranthene	0.28	mg/Kg	<0.28
	Benzo(k)fluoranthene	0.28	mg/Kg	<0.28
	Benzo(a)pyrene	0.28	mg/Kg	<0.28
	Indeno(1,2,3-cd)pyrene	0.28	mg/Kg	<0.28
	Dibenzo(a,h)anthracene	0.28	mg/Kg	<0.28
	Benzo(g,h,i)perylene	0.28	mg/Kg	<0.28
C9-C18 Aliphatic Hydrocarbons[1]		11.0	mg/Kg	<11.0
C19-C36 Aliphatic Hydrocarbons[1]		11.0	mg/Kg	<11.0
C11-C22 Aromatic Hydrocarbons[1,2]		11.0	mg/Kg	<11.0
Aliphatic Surrogate % Recovery				61
Aromatic Surrogate % Recovery				79
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				7293
Fractionation Surrogate % Recovery				72
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

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SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE105-1/3
Method for Target Analytes:		Lab ID		V0219-20
EPH Surrogate Standards		Date Collected		2/18/10
Aliphatic: Chlorooctadecane		Date Received		2/19/10
Aromatic: o-Terphenyl		Date Extracted		2/25/10
EPH Fractionation Surrogates		Date Analyzed		2/25/10, 2/26/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		13.60
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		11.4	mg/Kg	170
Diesel PAH Analytes	Naphthalene	0.29	mg/Kg	<0.29
	2-Methylnaphthalene	0.29	mg/Kg	<0.29
	Phenanthrene	0.29	mg/Kg	6.7
	Acenaphthylene	0.29	mg/Kg	<0.29
Other Target PAH Analytes	Acenaphthene	0.29	mg/Kg	0.40
	Fluorene	0.29	mg/Kg	0.70
	Anthracene	0.29	mg/Kg	1.7
	Fluoranthene	0.29	mg/Kg	11.5
	Pyrene	0.29	mg/Kg	6.8
	Benzo(a)anthracene	0.29	mg/Kg	5.5
	Chrysene	0.29	mg/Kg	6.3
	Benzo(b)fluoranthene	0.29	mg/Kg	6.5
	Benzo(k)fluoranthene	0.29	mg/Kg	4.2
	Benzo(a)pyrene	0.29	mg/Kg	3.9
	Indeno(1,2,3-cd)pyrene	0.29	mg/Kg	2.6
	Dibenzo(a,h)anthracene	0.29	mg/Kg	3.6
	Benzo(g,h,i)perylene	0.29	mg/Kg	4.4
C9-C18 Aliphatic Hydrocarbons[1]		11.4	mg/Kg	<11.4
C19-C36 Aliphatic Hydrocarbons[1]		11.4	mg/Kg	<11.4
C11-C22 Aromatic Hydrocarbons[1,2]		11.4	mg/Kg	105
Aliphatic Surrogate % Recovery				60
Aromatic Surrogate % Recovery				75
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				67
Fractionation Surrogate % Recovery				52
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ____________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE106-3/6
Method for Target Analytes:	Lab ID	V0219-20
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	2/18/10
	Date Received	2/19/10
	Date Extracted	2/25/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene	Date Analyzed	2/25/10, 2/26/10
	Dilution Factor	1X
	% Moisture (soil)	26.69

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		13.4	mg/Kg	19.8
Diesel PAH Analytes	Naphthalene	0.34	mg/Kg	<0.34
	2-Methylnaphthalene	0.34	mg/Kg	<0.34
	Phenanthrene	0.34	mg/Kg	0.40
	Acenaphthylene	0.34	mg/Kg	<0.34
Other Target PAH Analytes	Acenaphthene	0.34	mg/Kg	<0.34
	Fluorene	0.34	mg/Kg	<0.34
	Anthracene	0.34	mg/Kg	<0.34
	Fluoranthene	0.34	mg/Kg	0.70
	Pyrene	0.34	mg/Kg	0.80
	Benzo(a)anthracene	0.34	mg/Kg	0.40
	Chrysene	0.34	mg/Kg	0.40
	Benzo(b)fluoranthene	0.34	mg/Kg	<0.34
	Benzo(k)fluoranthene	0.34	mg/Kg	<0.34
	Benzo(a)pyrene	0.34	mg/Kg	0.40
	Indeno(1,2,3-cd)pyrene	0.34	mg/Kg	<0.34
	Dibenzo(a,h)anthracene	0.34	mg/Kg	<0.34
	Benzo(g,h,i)perylene	0.34	mg/Kg	<0.34
C9-C18 Aliphatic Hydrocarbons[1]		13.4	mg/Kg	<13.4
C19-C36 Aliphatic Hydrocarbons[1]		13.4	mg/Kg	<13.4
C11-C22 Aromatic Hydrocarbons[1,2]		13.4	mg/Kg	16.1
Aliphatic Surrogate % Recovery				53
Aromatic Surrogate % Recovery				61
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				55
Fractionation Surrogate % Recovery				45
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	AE107-0/3
Method for Target Analytes:			Lab ID	V0219-20
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl			Date Collected Date Received Date Extracted	2/18/10 2/19/10 2/25/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene			Date Analyzed Dilution Factor % Moisture (soil)	2/25/10, 2/26/10 1X 14.77
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		11.6	mg/Kg	79.1
Diesel PAH Analytes	Naphthalene	0.29	mg/Kg	<0.29
	2-Methylnaphthalene	0.29	mg/Kg	<0.29
	Phenanthrene	0.29	mg/Kg	2.1
	Acenaphthylene	0.29	mg/Kg	<0.29
Other Target PAH Analytes	Acenaphthene	0.29	mg/Kg	<0.29
	Fluorene	0.29	mg/Kg	<0.29
	Anthracene	0.29	mg/Kg	0.60
	Fluoranthene	0.29	mg/Kg	4.5
	Pyrene	0.29	mg/Kg	4.4
	Benzo(a)anthracene	0.29	mg/Kg	2.5
	Chrysene	0.29	mg/Kg	2.9
	Benzo(b)fluoranthene	0.29	mg/Kg	2.3
	Benzo(k)fluoranthene	0.29	mg/Kg	2.3
	Benzo(a)pyrene	0.29	mg/Kg	2.5
	Indeno(1,2,3-cd)pyrene	0.29	mg/Kg	1.1
	Dibenzo(a,h)anthracene	0.29	mg/Kg	1.3
	Benzo(g,h,i)perylene	0.29	mg/Kg	1.5
C9-C18 Aliphatic Hydrocarbons[1]		11.6	mg/Kg	<11.6
C19-C36 Aliphatic Hydrocarbons[1]		11.6	mg/Kg	<11.6
C11-C22 Aromatic Hydrocarbons[1,2]		11.6	mg/Kg	51.1
Aliphatic Surrogate % Recovery				72
Aromatic Surrogate % Recovery				77
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				52
Fractionation Surrogate % Recovery				45
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	AE107-3-5.5
Method for Target Analytes:			Lab ID	V0219-20
EPH Surrogate Standards			Date Collected	2/18/10
Aliphatic: Chlorooctadecane			Date Received	2/19/10
Aromatic: o-Terphenyl			Date Extracted	2/25/10
EPH Fractionation Surrogates			Date Analyzed	2/25/10, 2/26/10
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	35.82
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		15.5	mg/Kg	<15.5
Diesel PAH Analytes	Naphthalene	0.39	mg/Kg	<0.39
	2-Methylnaphthalene	0.39	mg/Kg	<0.39
	Phenanthrene	0.39	mg/Kg	<0.39
	Acenaphthylene	0.39	mg/Kg	<0.39
Other Target PAH Analytes	Acenaphthene	0.39	mg/Kg	<0.39
	Fluorene	0.39	mg/Kg	<0.39
	Anthracene	0.39	mg/Kg	<0.39
	Fluoranthene	0.39	mg/Kg	<0.39
	Pyrene	0.39	mg/Kg	<0.39
	Benzo(a)anthracene	0.39	mg/Kg	<0.39
	Chrysene	0.39	mg/Kg	<0.39
	Benzo(b)fluoranthene	0.39	mg/Kg	<0.39
	Benzo(k)fluoranthene	0.39	mg/Kg	<0.39
	Benzo(a)pyrene	0.39	mg/Kg	<0.39
	Indeno(1,2,3-cd)pyrene	0.39	mg/Kg	<0.39
	Dibenzo(a,h)anthracene	0.39	mg/Kg	<0.39
	Benzo(g,h,i)perylene	0.39	mg/Kg	<0.39
C9-C18 Aliphatic Hydrocarbons[1]		15.5	mg/Kg	<15.5
C19-C36 Aliphatic Hydrocarbons[1]		15.5	mg/Kg	<15.5
C11-C22 Aromatic Hydrocarbons[1,2]		15.5	mg/Kg	<15.5
Aliphatic Surrogate % Recovery				65
Aromatic Surrogate % Recovery				61
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				48
Fractionation Surrogate % Recovery				41
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

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SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE108-0/3
Method for Target Analytes:		Lab ID		V0219-20
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected		2/18/10
		Date Received		2/19/10
		Date Extracted		2/25/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene		Date Analyzed		2/25/10, 2/26/10
		Dilution Factor		1X
		% Moisture (soil)		15.23
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		11.7	mg/Kg	40.7
Diesel PAH Analytes	Naphthalene	0.29	mg/Kg	<0.29
	2-Methylnaphthalene	0.29	mg/Kg	<0.29
	Phenanthrene	0.29	mg/Kg	1.5
	Acenaphthylene	0.29	mg/Kg	<0.29
Other Target PAH Analytes	Acenaphthene	0.29	mg/Kg	<0.29
	Fluorene	0.29	mg/Kg	<0.29
	Anthracene	0.29	mg/Kg	0.30
	Fluoranthene	0.29	mg/Kg	2.9
	Pyrene	0.29	mg/Kg	3.1
	Benzo(a)anthracene	0.29	mg/Kg	1.5
	Chrysene	0.29	mg/Kg	1.7
	Benzo(b)fluoranthene	0.29	mg/Kg	1.6
	Benzo(k)fluoranthene	0.29	mg/Kg	0.80
	Benzo(a)pyrene	0.29	mg/Kg	1.4
	Indeno(1,2,3-cd)pyrene	0.29	mg/Kg	0.60
	Dibenzo(a,h)anthracene	0.29	mg/Kg	0.60
	Benzo(g,h,i)perylene	0.29	mg/Kg	0.80
C9-C18 Aliphatic Hydrocarbons[1]		11.7	mg/Kg	<11.7
C19-C36 Aliphatic Hydrocarbons[1]		11.7	mg/Kg	<11.7
C11-C22 Aromatic Hydrocarbons[1,2]		11.7	mg/Kg	23.9
Aliphatic Surrogate % Recovery				68
Aromatic Surrogate % Recovery				91
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				74
Fractionation Surrogate % Recovery				40
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

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SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE108-3/6
Method for Target Analytes:	Lab ID	V0219-20
EPH Surrogate Standards	Date Collected	2/18/10
Aliphatic: Chlorooctadecane	Date Received	2/19/10
Aromatic: o-Terphenyl	Date Extracted	2/25/10
EPH Fractionation Surrogates	Date Analyzed	2/25/10, 2/26/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	12.87

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		11.2	mg/Kg	<11.2
Diesel PAH Analytes	Naphthalene	0.28	mg/Kg	<0.28
	2-Methylnaphthalene	0.28	mg/Kg	<0.28
	Phenanthrene	0.28	mg/Kg	<0.28
	Acenaphthylene	0.28	mg/Kg	<0.28
Other Target PAH Analytes	Acenaphthene	0.28	mg/Kg	<0.28
	Fluorene	0.28	mg/Kg	<0.28
	Anthracene	0.28	mg/Kg	<0.28
	Fluoranthene	0.28	mg/Kg	<0.28
	Pyrene	0.28	mg/Kg	<0.28
	Benzo(a)anthracene	0.28	mg/Kg	<0.28
	Chrysene	0.28	mg/Kg	<0.28
	Benzo(b)fluoranthene	0.28	mg/Kg	<0.28
	Benzo(k)fluoranthene	0.28	mg/Kg	<0.28
	Benzo(a)pyrene	0.28	mg/Kg	<0.28
	Indeno(1,2,3-cd)pyrene	0.28	mg/Kg	<0.28
	Dibenzo(a,h)anthracene	0.28	mg/Kg	<0.28
	Benzo(g,h,i)perylene	0.28	mg/Kg	<0.28
C9-C18 Aliphatic Hydrocarbons[1]		11.2	mg/Kg	<11.2
C19-C36 Aliphatic Hydrocarbons[1]		11.2	mg/Kg	<11.2
C11-C22 Aromatic Hydrocarbons[1,2]		11.2	mg/Kg	<11.2
Aliphatic Surrogate % Recovery				98
Aromatic Surrogate % Recovery				74
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				67
Fractionation Surrogate % Recovery				67
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	X Received on Ice X Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE109-12/15
Method for Target Analytes:		Lab ID		V0219-20
EPH Surrogate Standards		Date Collected		2/18/10
Aliphatic: Chlorooctadecane		Date Received		2/19/10
Aromatic: o-Terphenyl		Date Extracted		2/25/10
EPH Fractionation Surrogates		Date Analyzed		2/25/10, 2/26/10
2-Fluorobiphenyl		Dilution Factor		1X,20X
2-Bromonaphthalene		% Moisture (soil)		14.0
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		11.2	mg/Kg	83.1
Diesel PAH Analytes	Naphthalene	0.28	mg/Kg	2.4
	2-Methylnaphthalene	0.28	mg/Kg	0.40
	Phenanthrene	0.28	mg/Kg	0.40
	Acenaphthylene	0.28	mg/Kg	<0.28
Other Target PAH Analytes	Acenaphthene	0.28	mg/Kg	<0.28
	Fluorene	0.28	mg/Kg	<0.28
	Anthracene	0.28	mg/Kg	<0.28
	Fluoranthene	0.28	mg/Kg	0.30
	Pyrene	0.28	mg/Kg	0.30
	Benzo(a)anthracene	0.28	mg/Kg	<0.28
	Chrysene	0.28	mg/Kg	<0.28
	Benzo(b)fluoranthene	0.28	mg/Kg	<0.28
	Benzo(k)fluoranthene	0.28	mg/Kg	<0.28
	Benzo(a)pyrene	0.28	mg/Kg	<0.28
	Indeno(1,2,3-cd)pyrene	0.28	mg/Kg	<0.28
	Dibenzo(a,h)anthracene	0.28	mg/Kg	<0.28
	Benzo(g,h,i)perylene	0.28	mg/Kg	<0.28
C9-C18 Aliphatic Hydrocarbons[1]		11.2	mg/Kg	2910
C19-C36 Aliphatic Hydrocarbons[1]		11.2	mg/Kg	<11.2
C11-C22 Aromatic Hydrocarbons[1,2]		11.2	mg/Kg	79.3
Aliphatic Surrogate % Recovery				52
Aromatic Surrogate % Recovery				88
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				96
Fractionation Surrogate % Recovery				101
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

SAMPLE INFORMATION

Matrix	Aqueous X Soil Sediment Other:
Containers	Satisfactory Broken Leaking:
Aqueous Preservatives	X N/A pH<2 pH>2 Comment:
Temperature	Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Soil: Soxhlet

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		Method Blank
Method for Target Analytes:		Lab ID		V0219-20
EPH Surrogate Standards		Date Collected		NA
Aliphatic: Chlorooctadecane		Date Received		NA
Aromatic: o-Terphenyl		Date Extracted		2/25/10
EPH Fractionation Surrogates		Date Analyzed		2/25/10, 2/26/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		0.00
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		10.0	mg/Kg	<10.0
Diesel PAH Analytes	Naphthalene	0.25	mg/Kg	<0.25
	2-Methylnaphthalene	0.25	mg/Kg	<0.25
	Phenanthrene	0.25	mg/Kg	<0.25
	Acenaphthylene	0.25	mg/Kg	<0.25
Other Target PAH Analytes	Acenaphthene	0.25	mg/Kg	<0.25
	Fluorene	0.25	mg/Kg	<0.25
	Anthracene	0.25	mg/Kg	<0.25
	Fluoranthene	0.25	mg/Kg	<0.25
	Pyrene	0.25	mg/Kg	<0.25
	Benzo(a)anthracene	0.25	mg/Kg	<0.25
	Chrysene	0.25	mg/Kg	<0.25
	Benzo(b)fluoranthene	0.25	mg/Kg	<0.25
	Benzo(k)fluoranthene	0.25	mg/Kg	<0.25
	Benzo(a)pyrene	0.25	mg/Kg	<0.25
	Indeno(1,2,3-cd)pyrene	0.25	mg/Kg	<0.25
	Dibenzo(a,h)anthracene	0.25	mg/Kg	<0.25
	Benzo(g,h,i)perylene	0.25	mg/Kg	<0.25
C9-C18 Aliphatic Hydrocarbons[1]		10.0	mg/Kg	<10.0
C19-C36 Aliphatic Hydrocarbons[1]		10.0	mg/Kg	<10.0
C11-C22 Aromatic Hydrocarbons[1,2]		10.0	mg/Kg	<10.0
Aliphatic Surrogate % Recovery				53
Aromatic Surrogate % Recovery				70
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				42
Fractionation Surrogate % Recovery				47
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/1/2010

```
             Spike Recovery and RPD Summary Report - WATER

Method        : R:\2\METHODS\ARO.M (Chemstation Integrator)
Title         :
Last Update   : Fri Feb 26 12:25:48 2010
Response via  : Initial Calibration

Non-Spiked Sample:  F022450.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  F022451.D                             | F022452.D
Sample  :  LES 2-25                              | LESD 2-25
Acq Time:  25 Feb 20110   9:22 pm                 | 25 Feb 20110  10:06 pm
---------------------------------------------------------------------------

Compound                Sample Spike Spike  Dup  Spike  Dup  RPD    QC Limits
                         Conc  Added  Res   Res  %Rec  %Rec      RPD  % Rec
---------------------------------------------------------------------------
Naphthalene            | 0.0 |  40 |  20 |  18 |  49 |  44 | 10 | 25 | 40-140|
2 methyl naphthalene| 0.0 |  40 |  16 |  18 |  40 |  45 | 12 | 25 | 40-140|
Acenaphthene           | 0.0 |  40 |  17 |  21 |  43 |  53 | 22 | 25 | 40-140|
Anthracene             | 0.0 |  40 |  26 |  33 |  66 |  82 | 21 | 25 | 40-140|
Pyrene                 | 0.0 |  40 |  31 |  39 |  77 |  97 | 23 | 25 | 40-140|
Chrysene               | 0.0 |  40 |  34 |  40 |  84 |  99 | 17 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


            ARO.M          Mon Mar 01 13:39:42 2010
```

```
           Spike Recovery and RPD Summary Report - WATER

Method        : J:\METHODS\EPHALI.M (Chemstation Integrator)
Title         :
Last Update   : Fri Feb 26 11:17:18 2010
Response via  : Initial Calibration

Non-Spiked Sample:  J022508.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  J022509.D                             | J022516.D
Sample  :  LES 2-25                              | LESD 2-25
Acq Time:  25 Feb 20110   4:50 pm                 | 25 Feb 20110   8:01 pm
---------------------------------------------------------------------------

Compound                 Sample Spike Spike  Dup  Spike  Dup  RPD    QC Limits
                          Conc  Added  Res   Res  %Rec  %Rec      RPD  % Rec
---------------------------------------------------------------------------
Nonane                   | 0.0 |  40 |  13 |  12 |  32 |  30 |  6 | 25 | 30-140|
Tetradecane              | 0.0 |  40 |  24 |  23 |  60 |  58 |  4 | 25 | 40-140|
Nonadecane               | 0.0 |  40 |  23 |  25 |  57 |  62 |  7 | 25 | 40-140|
Eicosane                 | 0.0 |  40 |  26 |  27 |  64 |  68 |  7 | 25 | 40-140|
Octacosane               | 0.0 |  40 |  24 |  25 |  60 |  64 |  7 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


           EPHALI.M      Mon Mar 01 13:43:31 2010
```

RESULTS: VOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0219-20

Method: 8260

Matrix: (soil/water) SOIL

Sample wt/vol: 34.2 (g/ml) G

% Moisture 14

Soil Extract Volume: (uL)

Analyst's Initials: HC

Client Name: Action Environmental, Inc

Lab Sample ID: AE-109-12/15

Lab File ID: C022536/C022533/C022535.D

Date Sampled: 2/18/2010

Date Analyzed: 2/25/2010

Dilution Factor: 100/400/4000

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: UG/KG	Q
75-01-4	Vinyl Chloride	34	U
74-83-9	Bromomethane	34	U
75-00-3	Chloroethane	34	U
67-64-1	Acetone	170	U
75-35-4	1,1-Dichloroethene	34	U
75-15-0	Carbon Disulfide	34	U
75-09-2	Methylene Chloride	34	U
1634-04-4	tert-Butyl methyl ether	34	U
156-60-5	trans-1,2 Dichloroethene	34	U
75-34-3	1,1-Dichloroethane	34	U
78-93-3	2-Butanone	170	U
594-20-7	2,2-Dichloropropane	34	U
156-59-2	cis-1,2-Dichloroethene	34	U
67-66-3	Chloroform	34	U
74-97-5	Bromochloromethane	34	U
71-55-6	1,1,1-Trichloroethane	34	U
563-58-6	1,1-Dichloropropene	34	U
56-23-5	Carbon Tetrachloride	34	U
71-43-2	Benzene	34	U
107-06-2	1,2-Dichloroethane	34	U
79-01-6	Trichloroethene	34	U
78-87-5	1,2-Dichloropropane	34	U
75-27-4	Bromodichloromethane	34	U
74-95-3	Dibromomethane	34	U
108-10-1	4-Methyl-2-pentanone	170	U
106-93-4	Ethylene Dibromide	34	U
10061-01-5	cis-1,3-Dichloropropene	34	U
108-88-3	Toluene	34	U
10061-02-6	Trans-1,3-Dichloropropene	34	U
79-00-5	1,1,2-Trichloroethane	34	U
591-78-6	2-Hexanone	170	U
127-18-4	Tetrachloroethene	34	U
124-48-1	Chlorodibromomethane	34	U
108-90-7	Chlorobenzene	34	U
630-20-6	1,1,1,2-Tetrachloroethane	34	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0219-20

Method: 8260

Matrix: (soil/water) SOIL

Sample wt/vol: 34.2 (g/ml) G

% Moisture 14

Soil Extract Volume: (uL)

Analyst's Initials: HC

Client Name: Action Environmental, Inc

Lab Sample ID: AE-109-12/15

Lab File ID: C022536/C022533/C022535.D

Date Sampled: 2/18/2010

Date Analyzed: 2/25/2010

Dilution Factor: 100/400/4000

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: UG/KG	Q
100-41-4	Ethylbenzene	34	U
1330-20-7	m & p-Xylene	68	U
95-47-6	o-Xylene	34	U
100-42-5	Styrene	34	U
75-25-2	Bromoform	34	U
98-82-8	Isopropylbenzene	3700	
79-34-5	1,1,2,2-Tetrachloroethane	34	U
108-86-1	Bromobenzene	34	U
96-18-4	1,2,3-Trichloropropane	34	U
95-49-8	2-Chlorotoluene	34	U
103-65-1	n-Propylbenzene	12000	
108-67-8	1,3,5-Trimethylbenzene	34	U
106-43-4	4-Chlorotoluene	34	U
98-06-6	tert-Butylbenzene	870	
95-63-6	1,2,4-Trimethylbenzene	88000	
135-98-8	sec-Butylbenzene	6000	
99-87-6	p-Isopropyltoluene	870	
75-87-3	Chloromethane	34	U
75-65-0	tert butyl alcohol	34	U
541-73-1	1,3-Dichlorobenzene	34	U
109-99-9	Tetrahydrofuran	34	U
106-46-7	1,4-Dichlorobenzene	34	U
60-29-7	Diethyl Ether	34	U
104-51-8	n-Butylbenzene	3100	
95-50-1	1,2-Dichlorobenzene	34	U
96-12-8	1,2-Dibromo-3-chloropropane	34	U
120-82-1	1,2,4-Trichlorobenzene	34	U
87-68-3	Hexachlorobutadiene	34	U
91-20-3	Naphthalene	2000	
87-61-6	1,2,3-Trichlorobenzene	34	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0219-20

Method: 8260

Matrix: (soil/water) SOIL

Sample wt/vol: 10.0 (g/ml) G

% Moisture 0

Soil Extract Volume: (uL)

Analyst's Initials: HC

Client Name: Action Environmental, Inc

Lab Sample ID: VBLK100225

Lab File ID: C022529.D

Date Sampled: 2/18/2010

Date Analyzed: 2/25/2010

Dilution Factor: 50.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: UG/KG	Q
75-01-4	Vinyl Chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
67-64-1	Acetone	250	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon Disulfide	50	U
75-09-2	Methylene Chloride	50	U
1634-04-4	tert-Butyl methyl ether	50	U
156-60-5	trans-1,2 Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
78-93-3	2-Butanone	250	U
594-20-7	2,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
74-97-5	Bromochloromethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon Tetrachloride	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	50	U
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
74-95-3	Dibromomethane	50	U
108-10-1	4-Methyl-2-pentanone	250	U
106-93-4	Ethylene Dibromide	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-88-3	Toluene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
124-48-1	Chlorodibromomethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0219-20
Method: 8260
Matrix: (soil/water) SOIL
Sample wt/vol: 10.0 (g/ml) G
% Moisture 0
Soil Extract Volume: (uL)
Analyst's Initials: HC

Client Name: Action Environmental, Inc
Lab Sample ID: VBLK100225
Lab File ID: C022529.D
Date Sampled: 2/18/2010
Date Analyzed: 2/25/2010
Dilution Factor: 50.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: UG/KG	Q
100-41-4	Ethylbenzene	50	U
1330-20-7	m & p-Xylene	100	U
95-47-6	o-Xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
103-65-1	n-Propylbenzene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	p-Isopropyltoluene	50	U
75-87-3	Chloromethane	50	U
75-65-0	tert butyl alcohol	50	U
541-73-1	1,3-Dichlorobenzene	50	U
109-99-9	Tetrahydrofuran	50	U
106-46-7	1,4-Dichlorobenzene	50	U
60-29-7	Diethyl Ether	50	U
104-51-8	n-Butylbenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
91-20-3	Naphthalene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Lab Contract: 515 Somerville Av

Lab Code: RI010 Case No.: V0219-20 SAS No.: SDG No.: Action Env

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS100225	101	108	100	0
02	VBLK100225	92	96	97	0
03	AE-109-12/15	115	111	92	0

			QC LIMITS
SMC1	=	4-Bromofluorobenzene	(70-130)
SMC2	=	Toluene-D8	(70-130)
SMC3	=	1,2-Dichloroethane-D4	(70-130)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Volatile Organics Laboratory Control Spike

Date Analyzed: 02/25/2010 **Sample ID: VLCS100225**

Compound	Spike Added (ug/L)	Spike Result (ug/L)	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	51.4	103	70	130
Benzene	50.0	48.6	97	70	130
Trichloroethene	50.0	47.3	95	70	130
Toluene	50.0	52.9	106	70	130
Chlorobenzene	50.0	46.6	93	70	130

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Ave.
North Providence, RI 02904
1-888-863-8522

CHAIN OF CUSTODY RECORD

V0219 · 20

PROJ. NO. 3120
PROJECT NAME/LOCATION 515 SOMERVILLE AVE., SOMERVILLE, MA
CLIENT ACTION ENVIRONMENTAL, 184 RIVERVIEW AVE. 1ST FLOOR, WALTHAM, MA 02453
REPORT TO: ROBERT HOUGHTON
INVOICE TO: ANDREW CLEMONS

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	EPH + TARGET PAHs	VOCs (8260)	REMARKS
2/18/10		X		AE101 - 0/3		X		1	CHILL	X		
		X		AE101 - 3/6.5		X		1		X		
		X		AE102 - 0/3		X		1		X		
		X		AE102 - 3/6		X		1		X		
		X		AE103 - 0/3		X		1		X		
		X		AE104 - 0/3		X		1		X		
		X		AE104 - 3/6		X		1		X		
		X		AE105 - 1/3		X		1		X		
		X		AE106 - 3/6		X		1		X		
		X		AE107 - 0/3		X		1		X		
		X		AE107 - 3 - 5.5		X		1		X		
		X		AE108 - 0/3		X		1		X		
		X		AE108 - 3/6		X		1		X		
			X	AE109 - 12/15		X		2	CHILL MeOH	X	X	

Sampled by: (Signature) R Houghton	Date/Time 2/18/10	Received by: (Signature)	Date/Time
Relinquished by: (Signature) R Houghton	Date/Time 2/19/10 1100	Received by: (Signature) Robert Lee	Date/Time 2/19/10 11:00
Relinquished by: (Signature) Robert Lee	Date/Time 2/19/10 3:50	Received for Laboratory by: (Signature)	Date/Time

Laboratory Remarks:
Temp. received: ______
Cooled ☐

Special Instructions:
List Specific Detection
Limit Requirements:
MCP S-1/GW-2/3

Turnaround (Business Days) NORMAL 5

NETLAB

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number V0219-20A

Prepared for:

Attn: Robert Houghton
Action Environmental, Inc.
184 Riverview Ave.
Waltham, MA 02453

Report Date: March 8, 2010

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 21

ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc. Project #: 3120

Project Location: 515 Somerville Avenue, Somerville MA RTN[1]:

This form provides certifications for the following data set: V0219-20A

Sample Matrices: Groundwater ( ) Soil/Sediment (x) Drinking Water ( ) Other:

SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B (x)	7470A/1A (x)
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M[2] ( )
	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other: ( )

1 List Release Tracking Number (RTN), if known
2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S – SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, and C is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes (X) No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (X) No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No[1] ( ) Not Applicable ( )
D	***VPH and EPH Methods only***: Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes ( ) No[1] ( )

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (X) No[1] ( )
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (X) No[1] ( )

[1] All NO answers must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 3/8/2010

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on February 19, 2010 and additional analysis was requested March 2, 2010. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is V0219-20A.

Custody records are included in this report.

Site: 515 Somerville Avenue, Somerville, MA

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
AE101-0/3	2/18/10	Soil	Table II
AE101-3/6.5	2/18/10	Soil	Table II
AE102-0/3	2/18/10	Soil	Table II
AE102-3/6	2/18/10	Soil	Table II
AE103-0/3	2/18/10	Soil	Table II
AE104-0/3	2/18/10	Soil	Table II
AE104-3/6	2/18/10	Soil	Table II
AE105-1/3	2/18/10	Soil	Table II
AE106-3/6	2/18/10	Soil	Table II
AE107-0/3	2/18/10	Soil	Table II
AE107-3-5.5	2/18/10	Soil	Table II
AE108-0/3	2/18/10	Soil	Table II
AE108-3/6	2/18/10	Soil	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Metals		
Arsenic	3050B	6010B
Barium	3050B	6010B
Cadmium	3050B	6010B
Chromium	3050B	6010B
Lead	3050B	6010B
Mercury	NA	7471A
Selenium	3050B	6010B
Silver	3050B	6010B

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt:

No sample for ms/msd/duplicate analysis was supplied. No trip blank was supplied. No field blank was supplied y. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits.)

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

Metals:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

METALS RESULTS

Case Number: V0219-20A
Sample ID: AE101 0/3
Date collected: 2/18/10
Matrix SOIL
Solids, % 91.08
Sample Type: Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	2.58	0.60	0.60	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	17.4	0.30	0.30	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.30	0.30	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	8.29	0.30	0.30	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	16.1	0.30	0.30	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.074	0.074	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.60	0.60	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.30	0.30	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number:	V0219-20A
Sample ID:	AE101 3/6.5
Date collected:	2/18/10
Matrix	SOIL
Solids, %	91.76
Sample Type:	Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	3.55	0.62	0.62	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	9.09	0.31	0.31	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.31	0.31	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	7.72	0.31	0.31	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	3.05	0.31	0.31	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.071	0.071	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.62	0.62	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.31	0.31	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number: V0219-20A
Sample ID: AE102 0/3
Date collected: 2/18/10
Matrix SOIL
Solids, % 90.01
Sample Type: Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	2.79	0.63	0.63	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	37.3	0.32	0.32	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.32	0.32	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	5.07	0.32	0.32	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	111	0.32	0.32	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.069	0.069	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.63	0.63	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.32	0.32	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number:	V0219-20A
Sample ID:	AE102 3/6
Date collected:	2/18/10
Matrix	SOIL
Solids, %	88.52
Sample Type:	Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	2.43	0.72	0.72	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	9.24	0.36	0.36	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.36	0.36	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	6.30	0.36	0.36	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	3.15	0.36	0.36	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.073	0.073	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.72	0.72	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.36	0.36	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number:	V0219-20A
Sample ID:	AE103 0/3
Date collected:	2/18/10
Matrix	SOIL
Solids, %	82.99
Sample Type:	Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	2.42	0.73	0.73	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	41.7	0.37	0.37	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.37	0.37	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	8.13	0.37	0.37	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	124	0.37	0.37	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	0.204	0.080	0.080	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.73	0.73	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.37	0.37	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number: V0219-20A
Sample ID: AE104 0/3
Date collected: 2/18/10
Matrix SOIL
Solids, % 89.12
Sample Type: Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	1.97	0.63	0.63	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	62.2	0.32	0.32	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.32	0.32	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	10.1	0.32	0.32	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	31.3	0.32	0.32	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	0.683	0.077	0.077	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.63	0.63	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.32	0.32	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number:	V0219-20A
Sample ID:	AE104 3/6
Date collected:	2/18/10
Matrix	SOIL
Solids, %	88.65
Sample Type:	Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	2.99	0.70	0.70	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	11.6	0.35	0.35	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.35	0.35	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	10.5	0.35	0.35	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	12.0	0.35	0.35	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.069	0.069	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.70	0.70	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.35	0.35	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number:	V0219-20A
Sample ID:	AE105 1/3
Date collected:	2/18/10
Matrix	SOIL
Solids, %	86.40
Sample Type:	Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	3.24	0.66	0.66	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	99.0	0.33	0.33	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.33	0.33	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	7.20	0.33	0.33	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	154	0.33	0.33	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	0.723	0.076	0.076	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.66	0.66	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.33	0.33	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number:	V0219-20A
Sample ID:	AE106 3/6
Date collected:	2/18/10
Matrix	SOIL
Solids, %	73.31
Sample Type:	Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	1.29	0.76	0.76	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	23.7	0.38	0.38	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.38	0.38	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	5.60	0.38	0.38	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	3.63	0.38	0.38	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.085	0.085	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.76	0.76	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.38	0.38	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number: V0219-20A
Sample ID: AE107 0/3
Date collected: 2/18/10
Matrix SOIL
Solids, % 85.23
Sample Type: Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	3.52	0.57	0.57	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	36.4	0.28	0.28	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.28	0.28	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	13.2	0.28	0.28	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	140	0.28	0.28	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	0.551	0.078	0.078	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.57	0.57	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.28	0.28	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

NETLAB

METALS RESULTS

Case Number:	V0219-20A
Sample ID:	AE107 3-5.5
Date collected:	2/18/10
Matrix	SOIL
Solids, %	64.118
Sample Type:	Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	1.34	0.79	0.79	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	33.6	0.40	0.40	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.40	0.40	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	7.51	0.40	0.40	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	14.3	0.40	0.40	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.105	0.105	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.79	0.79	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.40	0.40	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number: V0219-20A
Sample ID: AE108 0/3
Date collected: 2/18/10
Matrix SOIL
Solids, % 84.77
Sample Type: Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	3.14	0.53	0.53	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	34.6	0.27	0.27	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.27	0.27	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	7.98	0.27	0.27	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	287	0.27	0.27	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	0.544	0.076	0.076	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.53	0.53	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.27	0.27	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Case Number: V0219-20A
Sample ID: AE108 3/6
Date collected: 2/18/10
Matrix SOIL
Solids, % 87.13
Sample Type: Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	0.81	0.62	0.62	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	17.8	0.31	0.31	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.31	0.31	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	6.24	0.31	0.31	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	5.67	0.31	0.31	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.070	0.070	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.62	0.62	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.31	0.31	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

METALS RESULTS

Sample ID: Preparation Blank
Matrix SOIL
Solids, % 100
Sample Type: Total

Analyst MG/AJ

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3050B	6010B	ND	0.67	0.67	mg/kg	3/4/10	3/4/10
Barium	7440-39-3	3050B	6010B	ND	0.33	0.33	mg/kg	3/4/10	3/4/10
Cadmium	7440-43-9	3050B	6010B	ND	0.33	0.33	mg/kg	3/4/10	3/4/10
Chromium	7440-47-3	3050B	6010B	ND	0.33	0.33	mg/kg	3/4/10	3/4/10
Lead	7439-92-1	3050B	6010B	ND	0.33	0.33	mg/kg	3/4/10	3/4/10
Mercury	7439-97-6	NA	7471A	ND	0.067	0.067	mg/kg	3/5/10	3/5/10
Selenium	7782-49-2	3050B	6010B	ND	0.67	0.67	mg/kg	3/4/10	3/4/10
Silver	7440-22-4	3050B	6010B	ND	0.33	0.33	mg/kg	3/4/10	3/4/10

ND indicates not Detected

All results are reported on a dry weight basis.

LABORATORY CONTROL SAMPLE RECOVERY

Parameter	True Value	Result	Units	Recovery, %	Internal LCL, %	Internal UCL, %	Date Analyzed
Arsenic	10.0	9.87	mg/kg	99	71	106	3/4/10
Barium	56.7	54.0	mg/kg	95	75	106	3/4/10
Cadmium	56.7	53.8	mg/kg	95	72	104	3/4/10
Chromium	56.7	50.9	mg/kg	90	74	105	3/4/10
Lead	56.7	57.9	mg/kg	102	73	109	3/4/10
Mercury	0.133	0.137	mg/kg	103	83	115	3/5/10
Selenium	10.0	8.40	mg/kg	84	75	100	3/4/10
Silver	33.3	30.6	mg/kg	92	73	127	3/4/10

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Ave.
North Providence, RI 02904
1-888-863-8522

V0219·20A

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3120
PROJECT NAME/LOCATION: 515 Somerville Ave, Somerville, MA
CLIENT: Action Environmental, 184 Riverview Ave. 1st Floor, Waltham, MA 02453
REPORT TO: Robert Houghton
INVOICE TO: Andrew Clemons

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	EPH + TARGET PAH	VOCs (8260)	RCRA 8	REMARKS
2/18/10		X		AE101 - 0/3		X		1	Chill	X		X	
		X		AE101 - 3/6.5		X		1		X		X	
		X		AE102 - 0/3		X		1		X		X	
		X		AE102 - 3/6		X		1		X		X	
		X		AE103 - 0/3		X		1		X		X	
		X		AE104 - 0/3		X		1		X		X	
		X		AE104 - 3/6		X		1		X		X	
		X		AE105 - 1/3		X		1		X		X	
		X		AE106 - 3/6		X		1		X		X	
		X		AE107 - 0/3		X		1		X		X	
		X		AE107 - 3 - 5.5		X		1		X		X	
		X		AE108 - 0/3		X		1		X		X	RCRA 8 metals added per Robert Houghton 3/2/10
		X		AE108 - 3/6		X		1		X		X	
			X	AE109 - 12/15		X		2	Chill MeOH	X	X		

Sampled by: (Signature) R Houghton	Date/Time 2/18/10	Received by: (Signature)	Date/Time
Relinquished by: (Signature) R Houghton	Date/Time 2/19/10 1100	Received by: (Signature) Robert Lee	Date/Time 2/19/10 11:00
Relinquished by: (Signature) Robert Lee	Date/Time 2/19/10 3:50	Received for Laboratory by: (Signature)	Date/Time 2/19/10 15:50

Laboratory Remarks:
Temp. received:
Cooled ☐

Special Instructions:
List Specific Detection
Limit Requirements:
MCP S-1/GW-2/3

Turnaround (Business Days) NORMAL 5

NETLAB

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number V0304-20

Prepared for:

Attn: Glenn Carlson
Action Environmental, Inc.
184 Riverview Ave.
Waltham, MA 02453

Report Date: March 11, 2010

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 39

ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc. Project #: 3120

Project Location: 515 Somerville Ave, Somerville, MA RTN[1]:

This form provides certifications for the following data set: V0304-20

Sample Matrices: Groundwater (x) Soil/Sediment ( ) Drinking Water ( ) Other:

SW-846 Methods Used	8260B (x)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH (x)	6020 ( )	9014M[2] ( )
	8082 ( )	8021B ( )	EPH (x)	7000 S[3] ( )	Other: ( )

1 List Release Tracking Number (RTN), if known
2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S – SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, and C is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes (X) No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (X) No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No[1] ( ) Not Applicable ( )
D	***VPH and EPH Methods only***: Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes (X) No[1] ( )

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (X) No[1] ( )
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (X) No[1] ( )

[1] All NO answers must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 3/11/2010

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on March 4, 2010. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is V0304-20.

Custody records are included in this report.

Site: 515 Somerville Ave, Somerville, MA

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
AE-101	3/3/10	Water	Table II
AE-102	3/3/10	Water	Table II, III
AE-103	3/3/10	Water	Table II
AE-104	3/3/10	Water	Table II
AE-106	3/3/10	Water	Table II
AE-107	3/3/10	Water	Table II
AE-108	3/3/10	Water	Table II, III
AE-109	3/3/10	Water	Table II, III

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
EPH	NA	**
VPH	NA	*

TABLE III, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Volatile Organic Compounds	5030	8260B

These methods are documented in:

*Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MADEP.

**Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MADEP.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt:

No sample for ms/msd/duplicate analysis was supplied. No trip blank was supplied. No field blank was supplied. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits).

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

EPH:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

VPH:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Volatile Orgnaic Compounds:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

RESULTS: EXTRACTABLE PETROLEUM HYDROCARBONS

Results for EPH analysis are presented in the following section. Each page is electronically signed.

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-101
Method for Target Analytes:		Lab ID		V0304-20
EPH Surrogate Standards		Date Collected		3/3/10
Aliphatic: Chlorooctadecane		Date Received		3/4/10
Aromatic: o-Terphenyl		Date Extracted		3/9/10
EPH Fractionation Surrogates		Date Analyzed		3/10/10,3/11/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				70
Aromatic Surrogate % Recovery				89
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				115
Fractionation Surrogate % Recovery				98
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-101
Method for Target Analytes:		Lab ID		V0304-20
EPH Surrogate Standards		Date Collected		3/3/10
Aliphatic: Chlorooctadecane		Date Received		3/4/10
Aromatic: o-Terphenyl		Date Extracted		3/9/10
EPH Fractionation Surrogates		Date Analyzed		3/10/10,3/11/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				70
Aromatic Surrogate % Recovery				89
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				115
Fractionation Surrogate % Recovery				98
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-102
Method for Target Analytes:	Lab ID	V0304-20
EPH Surrogate Standards	Date Collected	3/3/10
Aliphatic: Chlorooctadecane	Date Received	3/4/10
Aromatic: o-Terphenyl	Date Extracted	3/9/10
EPH Fractionation Surrogates	Date Analyzed	3/10/10,3/11/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				66
Aromatic Surrogate % Recovery				77
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				107
Fractionation Surrogate % Recovery				83
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-103
Method for Target Analytes:	Lab ID	V0304-20
EPH Surrogate Standards	Date Collected	3/3/10
Aliphatic: Chlorooctadecane	Date Received	3/4/10
Aromatic: o-Terphenyl	Date Extracted	3/9/10
EPH Fractionation Surrogates	Date Analyzed	3/10/10,3/11/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				57
Aromatic Surrogate % Recovery				64
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				101
Fractionation Surrogate % Recovery				93
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	AE-104
Method for Target Analytes:			Lab ID	V0304-20
EPH Surrogate Standards			Date Collected	3/3/10
Aliphatic: Chlorooctadecane			Date Received	3/4/10
Aromatic: o-Terphenyl			Date Extracted	3/9/10
EPH Fractionation Surrogates			Date Analyzed	3/10/10,3/11/10
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				60
Aromatic Surrogate % Recovery				66
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				96
Fractionation Surrogate % Recovery				87
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ____________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-106
Method for Target Analytes:	Lab ID	V0304-20
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	3/3/10
	Date Received	3/4/10
	Date Extracted	3/9/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene	Date Analyzed	3/10/10,3/11/10
	Dilution Factor	1X
	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				67
Aromatic Surrogate % Recovery				86
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				111
Fractionation Surrogate % Recovery				92
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-107
Method for Target Analytes:	Lab ID	V0304-20
EPH Surrogate Standards	Date Collected	3/3/10
Aliphatic: Chlorooctadecane	Date Received	3/4/10
Aromatic: o-Terphenyl	Date Extracted	3/9/10
EPH Fractionation Surrogates	Date Analyzed	3/10/10,3/11/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				71
Aromatic Surrogate % Recovery				73
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				71
Fractionation Surrogate % Recovery				44
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-108
Method for Target Analytes:	Lab ID	V0304-20
EPH Surrogate Standards	Date Collected	3/3/10
Aliphatic: Chlorooctadecane	Date Received	3/4/10
Aromatic: o-Terphenyl	Date Extracted	3/9/10
EPH Fractionation Surrogates	Date Analyzed	3/10/10,3/11/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				67
Aromatic Surrogate % Recovery				73
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				100
Fractionation Surrogate % Recovery				80
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-109
Method for Target Analytes:	Lab ID	V0304-20
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	3/3/10
	Date Received	3/4/10
	Date Extracted	3/9/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene	Date Analyzed	3/10/10,3/11/10
	Dilution Factor	1X
	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				71
Aromatic Surrogate % Recovery				65
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				63
Fractionation Surrogate % Recovery				55
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	Satisfactory Broken Leaking:
Aqueous Preservatives	N/A pH<2 pH>2 Comment:
Temperature	Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	Method Blank
Method for Target Analytes:			Lab ID	V0304-20
EPH Surrogate Standards			Date Collected	NA
Aliphatic: Chlorooctadecane			Date Received	NA
Aromatic: o-Terphenyl			Date Extracted	3/9/10
EPH Fractionation Surrogates			Date Analyzed	3/10/10,3/11/10
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				69
Aromatic Surrogate % Recovery				52
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				55
Fractionation Surrogate % Recovery				45
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

```
             Spike Recovery and RPD Summary Report - WATER

Method        : R:\2\METHODS\ALI.M (Chemstation Integrator)
Title         :
Last Update   : Fri Feb 26 14:01:03 2010
Response via  : Initial Calibration

Non-Spiked Sample:  F031004.D

           Spike                                 Spike
           Sample                                Duplicate Sample
---------------------------------------------------------------------------
File ID :  F031003.D                           | F031005.D
Sample  :  LEW 3-9                             | LEWD 3-9
Acq Time:  10 Mar 2010  10:18 am               | 10 Mar 2010  11:26 am
---------------------------------------------------------------------------

Compound                  Sample Spike  Spike  Dup  Spike  Dup   RPD    QC Limits
                           Conc  Added  Res    Res  %Rec   %Rec      RPD  % Rec
---------------------------------------------------------------------------
Nonane                    | 0.0 |  40 |  16 |  17 |  40 |  43 |  6 | 25 | 30-140|
Tetradecane               | 0.0 |  40 |  28 |  28 |  70 |  70 |  0 | 25 | 40-140|
Nonadecane                | 0.0 |  40 |  29 |  29 |  73 |  73 |  0 | 25 | 40-140|
Eicosane                  | 0.0 |  40 |  31 |  31 |  76 |  76 |  0 | 25 | 40-140|
Octacosane                | 0.0 |  40 |  30 |  29 |  75 |  73 |  3 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


            ALI.M          Thu Mar 11 12:20:53 2010
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```
            Spike Recovery and RPD Summary Report - WATER

Method       : R:\2\METHODS\ARO.M (Chemstation Integrator)
Title        :
Last Update  : Tue Mar 09 08:36:23 2010
Response via : Initial Calibration

Non-Spiked Sample:  F031028.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  F031029.D                            | F031030.D
Sample  :  LEW 3-9 ME                           | LEWD 3-9 ME
Acq Time:  11 Mar 2010   2:02 am                | 11 Mar 2010   2:46 am
---------------------------------------------------------------------------

Compound                Sample Spike Spike  Dup  Spike  Dup  RPD    QC Limits
                         Conc  Added  Res   Res  %Rec  %Rec      RPD  % Rec
---------------------------------------------------------------------------
Naphthalene           | 0.0 |  40 |  24 |  25 |  61 |  63 |  3 | 25 | 40-140|
2 methyl naphthalene| 0.0 |  40 |  24 |  25 |  59 |  61 |  3 | 25 | 40-140|
Acenaphthene          | 0.0 |  40 |  28 |  29 |  70 |  72 |  2 | 25 | 40-140|
Anthracene            | 0.0 |  40 |  38 |  39 |  94 |  97 |  3 | 25 | 40-140|
Pyrene                | 0.0 |  40 |  43 |  45 | 109 | 113 |  4 | 25 | 40-140|
Chrysene              | 0.0 |  40 |  45 |  47 | 113 | 117 |  3 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


            ARO.M         Thu Mar 11 12:21:45 2010
```

RESULTS: VOLATILE PETROLEUM HYDROCARBONS

Results for VPH analysis are presented in the following section. Each page is electronically signed.

SAMPLE INFORMATION

Matrix	_X_ Aqueous _ Soil __ Sediment __ Other:		
Containers	_X_ Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A _X_ pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: __covering soil _ not covering soil	_ 1:1 +/- 25%
		__ Samples received in air-tight container:	_ Other:
Temperature	_X_ Received on Ice _X_ Received at 4° C _ Other: Received at ° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-101
Method for Target Analytes:		Lab ID		V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene		Date Collected		3/3/10
		Date Received		3/4/10
		Date Analyzed		3/8/10
		Dilution Factor		1
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	<50
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				103
FID Surrogate % Recovery				101
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	_X_ Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	_X_ Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	_X_ No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: __covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _ Other: Received at ° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-102
Method for Target Analytes:			Lab ID	V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	3/3/10
			Date Received	3/4/10
			Date Analyzed	3/8/10
			Dilution Factor	1
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	<50
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				103
FID Surrogate % Recovery				102
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	_X_ Aqueous _ Soil _ Sediment _ Other:		
Containers	_X_ Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A _X_ pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	_X_ Received on Ice _X_ Received at 4° C _ Other: Received at ° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-103
Method for Target Analytes:		Lab ID		V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene		Date Collected		3/3/10
		Date Received		3/4/10
		Date Analyzed		3/8/10
		Dilution Factor		1
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	<50
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				102
FID Surrogate % Recovery				101
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	_X_ Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	_X_ Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	_X_ No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	_X_ Aqueous _ Soil _ Sediment _ Other:		
Containers	_X_ Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	__ N/A _X_ pH≤2 __ pH>2 Comment:	
	Soil or Sediment	__ N/A __ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		__ Samples rec'd in Methanol: __covering soil __ not covering soil	__ 1:1 +/- 25%
		__ Samples received in air-tight container:	__ Other:
Temperature	_X_ Received on Ice _X_ Received at 4° C __ Other: Received at ° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-104
Method for Target Analytes:		Lab ID		V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene		Date Collected		3/3/10
		Date Received		3/4/10
		Date Analyzed		3/8/10
		Dilution Factor		1
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	<50
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				103
FID Surrogate % Recovery				104
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	_X_ Aqueous _ Soil _ Sediment _ Other:		
Containers	_X_ Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A _X_ pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: __covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	_X_ Received on Ice _X_ Received at 4° C _ Other: Received at ° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-106
Method for Target Analytes:		Lab ID		V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene		Date Collected		3/3/10
		Date Received		3/4/10
		Date Analyzed		3/8/10
		Dilution Factor		1
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	<50
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				106
FID Surrogate % Recovery				103
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	_X_ Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	_X_ Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	_X_ No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	_X_ Aqueous __ Soil __ Sediment __ Other:		
Containers	_X_ Satisfactory __ Broken __ Leaking:		
Sample Preservatives	Aqueous	__ N/A _X_ pH≤2 __ pH>2 Comment:	
	Soil or Sediment	__ N/A __ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		__ Samples rec'd in Methanol: __covering soil __ not covering soil	__ 1:1 +/- 25%
		__ Samples received in air-tight container:	__ Other:
Temperature	_X_ Received on Ice _X_ Received at 4° C __ Other: Received at ° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-107
Method for Target Analytes:	Lab ID	V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	3/3/10
	Date Received	3/4/10
	Date Analyzed	3/8/10
	Dilution Factor	1
	% Moisture (soil)	NA

Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	<50
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				94
FID Surrogate % Recovery				89
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	_X_ Yes	__ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	_X_ Yes	__ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	_X_ No	__ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil _ 1:1 +/- 25% _ Other:
		_ Samples rec'd in Methanol: _covering soil _ not covering soil	
		_ Samples received in air-tight container:	
Temperature	X Received on Ice X Received at 4° C _ Other: Received at ° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-108
Method for Target Analytes:			Lab ID	V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	3/3/10
			Date Received	3/4/10
			Date Analyzed	3/8/10
			Dilution Factor	1
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	<50
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				98
FID Surrogate % Recovery				93
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _ Other: Received at ° C		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-109
Method for Target Analytes:			Lab ID	V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	3/3/10
			Date Received	3/4/10
			Date Analyzed	3/8/10
			Dilution Factor	1
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	187
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	148
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				104
FID Surrogate % Recovery				102
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	_Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A _ pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	_ Received on Ice _ Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	Method Blank
Method for Target Analytes:			Lab ID	V0304-20
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	NA
			Date Received	NA
			Date Analyzed	3/8/10
			Dilution Factor	1
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	mg/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	mg/L	<50
Benzene	C5-C8	5.0	mg/L	<5.0
Ethylbenzene	C9-C12	5.0	mg/L	<5.0
Methyl-tert-butylether	C5-C8	10	mg/L	<10
Naphthalene	N/A	10	mg/L	<10
Toluene	C5-C8	5.0	mg/L	<5.0
m- & p- Xylenes	C9-C12	10	mg/L	<10
o-Xylene	C9-C12	10	mg/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	mg/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	mg/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	mg/L	<50
PID Surrogate % Recovery				105
FID Surrogate % Recovery				104
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 3/11/2010

```
          Spike Recovery and RPD Summary Report - WATER

Method        : C:\HPCHEM\1\METHODS\VPHQUANT.M (Chemstation Integrator)
Title         :
Last Update   : Wed Feb 24 10:32:31 2010
Response via  : Initial Calibration

Non-Spiked Sample:  D030806.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  D030803.D                            | D030804.D
Sample  :  VLCS0308                             | VLCSD0308
Acq Time:   8 Mar 20110   8:28 am                |  8 Mar 20110   9:10 am
---------------------------------------------------------------------------

Compound                    Sample Spike Spike   Dup  Spike  Dup   RPD    QC Limits
                             Conc  Added  Res    Res  %Rec  %Rec       RPD  % Rec
---------------------------------------------------------------------------
Pentane                    | 0.0 |  50 |  54 |  54 | 109 | 108 |  1 | 25 | 70-130|
2-Methyl pentane           | 0.0 |  50 |  51 |  48 | 101 |  96 |  6 | 25 | 70-130|
2,2,4-trimethylpenta| 0.0 |  50 |  48 |  47 |  95 |  95 |  1 | 25 | 70-130|
MTBE #2                    | 0.0 |  50 |  47 |  52 |  93 | 103 | 10 | 25 | 70-130|
Benzene #2                 | 0.0 |  50 |  49 |  51 |  98 | 101 |  4 | 25 | 70-130|
Toluene #2                 | 0.0 |  50 |  42 |  43 |  84 |  86 |  3 | 25 | 70-130|
Ethylbenzene #2            | 0.0 |  50 |  48 |  48 |  96 |  96 |  0 | 25 | 70-130|
M&P Xylene #2              | 0.0 | 100 |  84 |  84 |  84 |  84 |  1 | 25 | 70-130|
O Xylene #2                | 0.0 |  50 |  39 |  40 |  78 |  80 |  4 | 25 | 70-130|
Naphthlene                 | 0.0 |  50 |  58 |  55 | 115 | 111 |  4 | 25 | 70-130|
---------------------------------------------------------------------------

  # - Fails Limit Check


          VPHQUANT.M     Tue Mar 09 14:04:23 2010
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RESULTS: VOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0304-20

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials: HC

Client Name: Action Environmental, Inc

Lab Sample ID: AE-102

Lab File ID: G17761.D

Date Sampled: 3/3/2010

Date Analyzed: 3/11/2010

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	10	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0304-20

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials: HC

Client Name: Action Environmental, Inc

Lab Sample ID: AE-102

Lab File ID: G17761.D

Date Sampled: 3/3/2010

Date Analyzed: 3/11/2010

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	5.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0304-20
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: HC

Client Name: Action Environmental, Inc
Lab Sample ID: AE-108
Lab File ID: G17762.D
Date Sampled: 3/3/2010
Date Analyzed: 3/11/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	10	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0304-20

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials: HC

Client Name: Action Environmental, Inc

Lab Sample ID: AE-108

Lab File ID: G17762.D

Date Sampled: 3/3/2010

Date Analyzed: 3/11/2010

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	5.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0304-20
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: HC

Client Name: Action Environmental, Inc
Lab Sample ID: AE-109
Lab File ID: G17763.D
Date Sampled: 3/3/2010
Date Analyzed: 3/11/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	10	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0304-20
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: HC

Client Name: Action Environmental, Inc
Lab Sample ID: AE-109
Lab File ID: G17763.D
Date Sampled: 3/3/2010
Date Analyzed: 3/11/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	2.5	
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	5.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0304-20
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: HC

Client Name: Action Environmental, Inc
Lab Sample ID: VBLK100311
Lab File ID: G17760.D
Date Sampled: 3/3/2010
Date Analyzed: 3/11/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	10	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0304-20
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials: HC

Client Name: Action Environmental, Inc
Lab Sample ID: VBLK100311
Lab File ID: G17760.D
Date Sampled: 3/3/2010
Date Analyzed: 3/11/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	5.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Lab Contract: 515 Somerville Av

Lab Code: RI010 Case No.: V0304-20 SAS No.: SDG No.: Action Env

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS100311	80	119	114	0
02	VBLK100311	116	108	106	0
03	AE-102	99	118	119	0
04	AE-108	90	103	120	0
05	AE-109	113	103	117	0

			QC LIMITS
SMC1	=	4-Bromofluorobenzene	(70-130)
SMC2	=	Toluene-D8	(70-130)
SMC3	=	1,2-Dichloroethane-D4	(70-130)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Volatile Organics Laboratory Control Spike

Date Analyzed: 03/11/2010 **Sample ID: VLCS100311**

Compound	Spike Added (ug/L)	Spike Result (ug/L)	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	59.2	118	70	130
Benzene	50.0	62.3	125	70	130
Trichloroethene	50.0	45.6	91	70	130
Toluene	50.0	48.6	97	70	130
Chlorobenzene	50.0	42.6	85	70	130

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Ave.
North Providence, RI 02904
1-888-863-8522

V0304.20

CHAIN OF CUSTODY RECORD

PROJ. NO. 3120
PROJECT NAME/LOCATION 515 Somerville Ave, Somerville, MA
CLIENT Action Environmental
REPORT TO: Glenn Carlson + Robert Houghton
INVOICE TO: Andrew Clemons

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	EPH	VPH	VOC (8260)	REMARKS
3-3-10	12:26		X	AE-101	X			3	HCl	X	X		
	11:20		X	AE-102	X			3	HCl	X	X	X	
	10:55		X	AE-103	X			3	HCl	X	X		
	9:20		X	AE-104	X			3	HCl	X	X		
	9:40		X	AE-106	X			3	HCl	X	X		
	10:25		X	AE-107	X			3	HCl	X	X		
	10:05		X	AE-108	X			3	HCl	X	X	X	
	11:50		X	AE-109	X			3	HCl	X	X	X	

	Date/Time			Date/Time
Sampled by: (Signature)	3/3/10 1:50	Received by: (Signature)		
Relinquished by: (Signature) R Houghton	3/4/10 1030	Received by: (Signature) Robert Lee		3/4/10 10:30
Relinquished by: (Signature) Robert Lee	3/4/10 3:40	Received for Laboratory by: (Signature)		3/4/10 15:40

Laboratory Remarks: 4°
Temp. received:
Cooled ✓

Special Instructions:
List Specific Detection
Limit Requirements:
MCP GW 2-3

Turnaround (Business Days) ~~NORMAL~~ 5 Bus Days

NETLAB

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number V0610-18

Prepared for:

Attn: Robert Houghton
Action Boston, Inc.
184 Riverview Ave.
Waltham, MA 02453

Report Date: June 18, 2010

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 39

ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc. Project #: 3120

Project Location: 515 Somerville Ave, Somerville, MA RTN[1]:

This form provides certifications for the following data set: V0610-18

Sample Matrices: Groundwater (x) Soil/Sediment ( ) Drinking Water ( ) Other:

SW-846 Methods Used	8260B (x)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH (x)	6020 ( )	9014M[2] ( )
	8082 ( )	8021B ( )	EPH (x)	7000 S[3] ( )	Other: ( )

1 List Release Tracking Number (RTN), if known
2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S – SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, and C is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes (X) No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (X) No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No[1] ( ) Not Applicable ( )
D	***VPH and EPH Methods only***: Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes (X) No[1] ( )

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (X) No[1] ( )
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (X) No[1] ( )

[1]All NO answers must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 6/18/2010

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on June 10, 2010. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is V0610-18.

Custody records are included in this report.

Site: 515 Somerville Ave, Somerville, MA

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
AE-101	6/9/10	Water	Table II
AE-102	6/9/10	Water	Table II, III
AE-103	6/9/10	Water	Table II
AE-104	6/9/10	Water	Table II
AE-106	6/9/10	Water	Table II
AE-107	6/9/10	Water	Table II
AE-108	6/9/10	Water	Table II, III
AE-109	6/9/10	Water	Table II, III

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
VPH	NA	**
EPH	NA	*

TABLE III Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Volatile Organic Compounds	5030	8260B

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

**Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MADEP.

*Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MADEP

CASE NARRATIVE:

Sample Receipt:

No sample for ms/msd/duplicate analysis was supplied. No trip blank was supplied. No field blank was supplied y. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits.)

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

EPH:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

VPH:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

VOC:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

RESULTS: EXTRACTABLE PETROLEUM HYDROCARBONS

Results for EPH analysis are presented in the following section. Each page is electronically signed.

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-101
Method for Target Analytes:	Lab ID	V0610-18
EPH Surrogate Standards	Date Collected	6/9/10
Aliphatic: Chlorooctadecane	Date Received	6/10/10
Aromatic: o-Terphenyl	Date Extracted	6/14/10
EPH Fractionation Surrogates	Date Analyzed	6/15/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				82
Aromatic Surrogate % Recovery				85
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				78
Fractionation Surrogate % Recovery				50
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ____________ POSITION: Laboratory Director.
PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-101
Method for Target Analytes:	Lab ID	V0610-18
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	6/9/10
	Date Received	6/10/10
	Date Extracted	6/14/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene	Date Analyzed	6/15/10
	Dilution Factor	1X
	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				82
Aromatic Surrogate % Recovery				85
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				78
Fractionation Surrogate % Recovery				50
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-102
Method for Target Analytes:	Lab ID	V0610-18
EPH Surrogate Standards	Date Collected	6/9/10
Aliphatic: Chlorooctadecane	Date Received	6/10/10
Aromatic: o-Terphenyl	Date Extracted	6/14/10
EPH Fractionation Surrogates	Date Analyzed	6/15/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				60
Aromatic Surrogate % Recovery				61
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				57
Fractionation Surrogate % Recovery				42
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-103
Method for Target Analytes:		Lab ID		V0610-18
EPH Surrogate Standards		Date Collected		6/9/10
Aliphatic: Chlorooctadecane		Date Received		6/10/10
Aromatic: o-Terphenyl		Date Extracted		6/14/10
EPH Fractionation Surrogates		Date Analyzed		6/15/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				79
Aromatic Surrogate % Recovery				69
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				68
Fractionation Surrogate % Recovery				41
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-104
Method for Target Analytes:	Lab ID	V0610-18
EPH Surrogate Standards	Date Collected	6/9/10
Aliphatic: Chlorooctadecane	Date Received	6/10/10
Aromatic: o-Terphenyl	Date Extracted	6/14/10
EPH Fractionation Surrogates	Date Analyzed	6/15/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				76
Aromatic Surrogate % Recovery				67
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				60
Fractionation Surrogate % Recovery				44
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-106
Method for Target Analytes:	Lab ID	V0610-18
EPH Surrogate Standards	Date Collected	6/9/10
Aliphatic: Chlorooctadecane	Date Received	6/10/10
Aromatic: o-Terphenyl	Date Extracted	6/14/10
EPH Fractionation Surrogates	Date Analyzed	6/15/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				72
Aromatic Surrogate % Recovery				79
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				84
Fractionation Surrogate % Recovery				77
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-107
Method for Target Analytes:	Lab ID	V0610-18
EPH Surrogate Standards	Date Collected	6/9/10
Aliphatic: Chlorooctadecane	Date Received	6/10/10
Aromatic: o-Terphenyl	Date Extracted	6/14/10
EPH Fractionation Surrogates	Date Analyzed	6/15/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		RL	Units	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				49
Aromatic Surrogate % Recovery				53
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				70
Fractionation Surrogate % Recovery				48
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-108
Method for Target Analytes:		Lab ID		V0610-18
EPH Surrogate Standards		Date Collected		6/9/10
Aliphatic: Chlorooctadecane		Date Received		6/10/10
Aromatic: o-Terphenyl		Date Extracted		6/14/10
EPH Fractionation Surrogates		Date Analyzed		6/15/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				51
Aromatic Surrogate % Recovery				51
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				80
Fractionation Surrogate % Recovery				71
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory Broken Leaking:
Aqueous Preservatives	N/A X pH<2 pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-109
Method for Target Analytes:	Lab ID	V0610-18
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	6/9/10
	Date Received	6/10/10
	Date Extracted	6/14/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene	Date Analyzed	6/15/10
	Dilution Factor	1X
	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				69
Aromatic Surrogate % Recovery				67
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				73
Fractionation Surrogate % Recovery				70
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	Satisfactory Broken Leaking:
Aqueous Preservatives	N/A pH<2 pH>2 Comment:
Temperature	Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		Method Blank
Method for Target Analytes:		Lab ID		V0610-18
EPH Surrogate Standards		Date Collected		NA
Aliphatic: Chlorooctadecane		Date Received		NA
Aromatic: o-Terphenyl		Date Extracted		6/14/10
EPH Fractionation Surrogates		Date Analyzed		6/14/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				81
Aromatic Surrogate % Recovery				68
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				41
Fractionation Surrogate % Recovery				56
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

```
            Spike Recovery and RPD Summary Report - WATER

Method        : J:\METHODS\EPHALI.M (Chemstation Integrator)
Title         :
Last Update   : Thu Apr 01 08:34:15 2010
Response via  : Initial Calibration

Non-Spiked Sample:  J061402.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  J061403.D                            | J061404.D
Sample  :  LEW 6-14                             | LEWD 6-14
Acq Time:  14 Jun 2010   3:54 pm                | 14 Jun 2010   4:23 pm
---------------------------------------------------------------------------

Compound                Sample Spike Spike  Dup  Spike  Dup  RPD    QC Limits
                         Conc  Added  Res   Res  %Rec  %Rec      RPD  % Rec
---------------------------------------------------------------------------
Nonane                  | 0.0 |  40 |  12 |  13 |  31 |  31 |  3 | 25 | 30-140|
Tetradecane             | 0.0 |  40 |  24 |  21 |  60 |  53 | 13 | 25 | 40-140|
Nonadecane              | 0.0 |  40 |  29 |  26 |  72 |  65 | 11 | 25 | 40-140|
Eicosane                | 0.0 |  40 |  33 |  28 |  84 |  70 | 18 | 25 | 40-140|
Octacosane              | 0.0 |  40 |  30 |  27 |  76 |  66 | 13 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


            EPHALI.M       Tue Jun 15 11:41:09 2010
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```
           Spike Recovery and RPD Summary Report - WATER

Method         : R:\2\METHODS\ARO.M (Chemstation Integrator)
Title          :
Last Update    : Wed Jun 02 09:07:53 2010
Response via   : Initial Calibration

Non-Spiked Sample:  F061402.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  F061403.D                            | F061404.D
Sample  :  LEW 6-14                             | LEWD 6-14
Acq Time:  14 Jun 2010   5:46 pm                | 14 Jun 2010   6:30 pm
---------------------------------------------------------------------------

Compound               Sample Spike Spike  Dup  Spike  Dup   RPD    QC Limits
                        Conc  Added  Res   Res  %Rec  %Rec        RPD  % Rec
---------------------------------------------------------------------------
Naphthalene            | 0.0 |  40 |  19 |  19 |  47 |  49 |  2 | 25 | 40-140|
2 methyl naphthalene| 0.0 |  40 |  17 |  17 |  43 |  43 |  0 | 25 | 40-140|
Acenaphthene           | 0.0 |  40 |  23 |  24 |  57 |  61 |  5 | 25 | 40-140|
Anthracene             | 0.0 |  40 |  25 |  25 |  64 |  62 |  3 | 25 | 40-140|
Pyrene                 | 0.0 |  40 |  28 |  27 |  71 |  68 |  4 | 25 | 40-140|
Chrysene               | 0.0 |  40 |  28 |  28 |  70 |  69 |  2 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


            ARO.M          Tue Jun 15 11:42:11 2010
```

RESULTS: VOLATILE PETROLEUM HYDROCARBONS

Results for VPH analysis are presented in the following section. Each page is electronically signed.

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-101
Method for Target Analytes:	Lab ID	V0610-18
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	6/9/10
	Date Received	6/10/10
	Date Analyzed	6/15/10
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				90
FID Surrogate % Recovery				84
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-102
Method for Target Analytes:	Lab ID	V0610-18
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	6/9/10
	Date Received	6/10/10
	Date Analyzed	6/15/10
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				90
FID Surrogate % Recovery				85
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-103
Method for Target Analytes:	Lab ID	V0610-18
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	6/9/10
	Date Received	6/10/10
	Date Analyzed	6/15/10
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				92
FID Surrogate % Recovery				85
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-104
Method for Target Analytes:			Lab ID	V0610-18
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	6/9/10
			Date Received	6/10/10
			Date Analyzed	6/15/10
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				93
FID Surrogate % Recovery				85
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	
Method for Target Analytes:	
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	

Client ID	AE-106
Lab ID	V0610-18
Date Collected	6/9/10
Date Received	6/10/10
Date Analyzed	6/15/10
Dilution Factor	1X
% Moisture (soil)	NA

Range/Target Analyte	Elution Range	RL	Units	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				91
FID Surrogate % Recovery				84
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director.

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-107
Method for Target Analytes:		Lab ID		V0610-18
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene		Date Collected		6/9/10
		Date Received		6/10/10
		Date Analyzed		6/15/10
		Dilution Factor		1X
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				94
FID Surrogate % Recovery				86
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-108
Method for Target Analytes:			Lab ID	V0610-18
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	6/9/10
			Date Received	6/10/10
			Date Analyzed	6/15/10
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				96
FID Surrogate % Recovery				89
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director.

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-109
Method for Target Analytes:		Lab ID		V0610-18
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene		Date Collected		6/9/10
		Date Received		6/10/10
		Date Analyzed		6/15/10
		Dilution Factor		1X
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	100
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	73.4
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				95
FID Surrogate % Recovery				85
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	_ Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A _ pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	_ Received on Ice _ Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	Method Blank
Method for Target Analytes:			Lab ID	V0610-18
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	NA
			Date Received	NA
			Date Analyzed	6/15/10
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5	ug/L	<5
Ethylbenzene	C9-C12	5	ug/L	<5
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5	ug/L	<5
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				94
FID Surrogate % Recovery				88
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 6/18/2010

```
            Spike Recovery and RPD Summary Report - WATER

Method        : C:\HPCHEM\1\METHODS\VPHQUANT.M (Chemstation Integrator)
Title         :
Last Update   : Wed Apr 28 09:13:24 2010
Response via  : Initial Calibration

Non-Spiked Sample:  D061414.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  D061411.D                            | D061412.D
Sample  :  LCS0615                              | LCSD0615
Acq Time:  15 Jun 2010  10:02 am                | 15 Jun 2010  10:43 am
---------------------------------------------------------------------------

Compound                Sample Spike Spike   Dup  Spike  Dup  RPD    QC Limits
                         Conc  Added  Res    Res  %Rec  %Rec      RPD  % Rec
---------------------------------------------------------------------------
Pentane                 | 0.0 |  50 |  59 |  63 | 119 | 126 |  6 | 25 | 70-130|
2-Methyl pentane        | 0.0 |  50 |  59 |  63 | 118 | 127 |  7 | 25 | 70-130|
2,2,4-trimethylpenta| 0.0 |  50 |  55 |  60 | 110 | 120 |  9 | 25 | 70-130|
MTBE #2                 | 0.0 |  50 |  56 |  57 | 112 | 113 |  1 | 25 | 70-130|
Benzene #2              | 0.0 |  50 |  53 |  53 | 107 | 105 |  1 | 25 | 70-130|
Toluene #2              | 0.0 |  50 |  51 |  52 | 101 | 103 |  2 | 25 | 70-130|
Ethylbenzene #2         | 0.0 |  50 |  53 |  54 | 106 | 109 |  2 | 25 | 70-130|
M&P Xylene #2           | 0.0 | 100 | 112 | 112 | 112 | 112 |  0 | 25 | 70-130|
O Xylene #2             | 0.0 |  50 |  49 |  50 |  98 |  99 |  1 | 25 | 70-130|
Naphthlene              | 0.0 |  50 |  43 |  44 |  87 |  88 |  1 | 25 | 70-130|
---------------------------------------------------------------------------

  # - Fails Limit Check


            VPHQUANT.M     Wed Jun 16 10:06:03 2010
```

RESULTS: VOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0610-18
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Boston, Inc
Lab Sample ID: AE-102
Lab File ID: C061517.D
Date Sampled: 6/9/2010
Date Analyzed: 6/15/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0610-18
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Boston, Inc
Lab Sample ID: AE-102
Lab File ID: C061517.D
Date Sampled: 6/9/2010
Date Analyzed: 6/15/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0610-18
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Boston, Inc
Lab Sample ID: AE-108
Lab File ID: C061518.D
Date Sampled: 6/9/2010
Date Analyzed: 6/15/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0610-18
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Boston, Inc
Lab Sample ID: AE-108
Lab File ID: C061518.D
Date Sampled: 6/9/2010
Date Analyzed: 6/15/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.:	V0610-18	Client Name:	Action Boston, Inc
Method:	8260	Lab Sample ID:	AE-109
Matrix: (soil/water)	WATER	Lab File ID:	C061519.D
Sample wt/vol:	5.0 (g/ml) ML	Date Sampled:	6/9/2010
% Moisture		Date Analyzed:	6/15/2010
Soil Extract Volume:	(uL)	Dilution Factor:	1.0
Analyst's Initials:		Soil Aliquot Volume:	(uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0610-18
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Boston, Inc
Lab Sample ID: AE-109
Lab File ID: C061519.D
Date Sampled: 6/9/2010
Date Analyzed: 6/15/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.:	V0610-18	Client Name:	Action Boston, Inc
Method:	8260	Lab Sample ID:	VBLK0615
Matrix: (soil/water)	WATER	Lab File ID:	C061515.D
Sample wt/vol:	5.0 (g/ml) ML	Date Sampled:	6/9/2010
% Moisture		Date Analyzed:	6/15/2010
Soil Extract Volume:	(uL)	Dilution Factor:	1.0
Analyst's Initials:		Soil Aliquot Volume:	(uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0610-18

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials:

Client Name: Action Boston, Inc

Lab Sample ID: VBLK0615

Lab File ID: C061515.D

Date Sampled: 6/9/2010

Date Analyzed: 6/15/2010

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Tresting Laboratory Contract: 515 Somerville Av

Lab Code: RI010 Case No.: V0610-18 SAS No.: Action SDG No.: Action Bos

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	LCS0615	92	101	108	0
02	VBLK0615	82	101	94	0
03	AE-102	89	105	81	0
04	AE-108	85	100	90	0
05	AE-109	80	97	96	0

			QC LIMITS
SMC1	=	4-Bromofluorobenzene	(70-130)
SMC2	=	Toluene-D8	(70-130)
SMC3	=	1,2-Dichloroethane-D4	(70-130)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

Volatile Organics Laboratory Control Spike

Date Analyzed: 06/15/2010 **Sample ID: VLCS061510**

Compound	Spike Added (ug/L)	Spike Result (ug/L)	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	36.5	73	70	130
Benzene	50.0	52.6	105	70	130
Trichloroethene	50.0	45.0	90	70	130
Toluene	50.0	47.7	95	70	130
Chlorobenzene	50.0	47.2	94	70	130

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Ave.
North Providence, RI 02904
1-888-863-8522

V0610-18

CHAIN OF CUSTODY RECORD

PROJ. NO. 3120
PROJECT NAME/LOCATION 515 Somerville Ave, Somerville MA
CLIENT Action Env.
REPORT TO: Carlson, Houghton
INVOICE TO: Clemons

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	EPH	VPH	VOCs(8260)				REMARKS
6/9/10	1015		✓	AE-101	✓			3	HCL	✓	✓					
	1035		✓	AE-102	✓			3		✓	✓	✓				
	1100		✓	AE-103	✓			3		✓	✓					
	1125		✓	AE-104	✓			3		✓	✓					
	1215		✓	AE-106	✓			3		✓	✓					
	1240		✓	AE-107	✓			3		✓	✓					
	110		✓	AE-108	✓			3		✓	✓	✓				
	140		✓	AE-109	✓			3		✓	✓	✓				

Sampled by: (Signature)	Date/Time 6/9/10 300	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time 6/10/10 10:10	Received by: (Signature) Robert Ree	Date/Time 6/10/10 10:10
Relinquished by: (Signature) Robert Ree	Date/Time 6/10/10 3:30	Received for Laboratory by: (Signature) Crystal Simond	Date/Time 6/10/10 3:30

Laboratory Remarks:
Temp. received: 4°C
Cooled ☑

Special Instructions:
List Specific Detection
Limit Requirements:
MCP GW 2,3

Turnaround (Business Days) 5

NETLAB

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number V0910-31

Prepared for:

Attn: Robert Houghton
Action Environmental, Inc.
184 Riverview Ave.
Waltham, MA 02453

Report Date: September 17, 2010

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 42

MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc.	Project #: 3120
Project Location: 515 Somerville Ave, Somerville, MA	RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
V0910-31

Matrices: x Groundwater/Surface Water   Soil/Sediment   Drinking Water   Air   Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A **x**	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A **x**	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B **x**	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	Other

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	X Yes	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	X Yes	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	X Yes	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	X Yes	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	X Yes Yes	No No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	X Yes	No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	X Yes	No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	X Yes	No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	X Yes	No[1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: ______________________

Position: Laboratory Director

Printed Name: Richard Warila

Date: 9/17/2010

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on September 10, 2010. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is V0910-31.

Custody records are included in this report.

Site: 515 Somerville Ave, Somerville, MA

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
AE-101	9/9/10	Water	Table II
AE-102	9/9/10	Water	Table II, III
AE-103	9/9/10	Water	Table II
AE-104	9/9/10	Water	Table II
AE-106	9/9/10	Water	Table II
AE-107	9/9/10	Water	Table II
AE-108	9/9/10	Water	Table II, III
AE-109	9/9/10	Water	Table II, III

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
VPH	NA	*
EPH	NA	**

TABLE III, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Volatile Organic Compounds	5030	8260B

These methods are documented in:

*Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MADEP.

**Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MADEP.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt:

No trip blank was supplied. No field blank was supplied y. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits).

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

EPH:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria

Volatile Organic Compounds:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

VPH:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

RESULTS: EXTRACTABLE PETROLEUM HYDROCARBONS

Results for EPH analysis are presented in the following section. Each page is electronically signed.

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous ___ Soil ___ Sediment ___ Other:
Containers	X Satisfactory ___ Broken ___ Leaking:
Aqueous Preservatives	___ N/A ___ X pH<2 ___ pH>2 Comment:
Temperature	X Received on Ice ___ Received at 4 ° C ___ Other:
Extraction Method	Water: Separatory Funnel ___ Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	AE-101
Method for Target Analytes:			Lab ID	V0910-31
EPH Surrogate Standards			Date Collected	9/9/10
Aliphatic: Chlorooctadecane			Date Received	9/10/10
Aromatic: o-Terphenyl			Date Extracted	9/15/10
EPH Fractionation Surrogates			Date Analyzed	9/15/10
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				58
Aromatic Surrogate % Recovery				74
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				77
Fractionation Surrogate % Recovery				46
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes ___ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes ___ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No ___ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	__ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	_X_ Received on Ice ___ Received at 4 ° C ___ Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-102
Method for Target Analytes:		Lab ID		V0910-31
EPH Surrogate Standards		Date Collected		9/9/10
Aliphatic: Chlorooctadecane		Date Received		9/10/10
Aromatic: o-Terphenyl		Date Extracted		9/15/10
EPH Fractionation Surrogates		Date Analyzed		9/15/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				42
Aromatic Surrogate % Recovery				80
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				108
Fractionation Surrogate % Recovery				91
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes __ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes __ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No __ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director
PRINTED NAME: Richard Warila DATE: 9/17/2010

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	_ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	_X_ Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-103
Method for Target Analytes:		Lab ID		V0910-31
EPH Surrogate Standards		Date Collected		9/9/10
Aliphatic: Chlorooctadecane		Date Received		9/10/10
Aromatic: o-Terphenyl		Date Extracted		9/15/10
EPH Fractionation Surrogates		Date Analyzed		9/15/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				44
Aromatic Surrogate % Recovery				69
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				104
Fractionation Surrogate % Recovery				66
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:
POSITION: Laboratory Director
PRINTED NAME: Richard Warila
DATE: 9/17/2010

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	__ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	_X_ Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-104
Method for Target Analytes:		Lab ID		V0910-31
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected		9/9/10
		Date Received		9/10/10
		Date Extracted		9/15/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene		Date Analyzed		9/15/10
		Dilution Factor		1X
		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				65
Aromatic Surrogate % Recovery				90
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				115
Fractionation Surrogate % Recovery				82
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? _X_ Yes __ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? _X_ Yes __ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? _X_ No __ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________________ POSITION: Laboratory Director
PRINTED NAME: Richard Warila DATE: 9/17/2010

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	_ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	_X_ Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1			Client ID	AE-106
Method for Target Analytes:			Lab ID	V0910-31
EPH Surrogate Standards			Date Collected	9/9/10
Aliphatic: Chlorooctadecane			Date Received	9/10/10
Aromatic: o-Terphenyl			Date Extracted	9/15/10
EPH Fractionation Surrogates			Date Analyzed	9/15/10
2-Fluorobiphenyl			Dilution Factor	1X
2-Bromonaphthalene			% Moisture (soil)	N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				60
Aromatic Surrogate % Recovery				94
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				101
Fractionation Surrogate % Recovery				106
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	_ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	_X_ Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-107
Method for Target Analytes:	Lab ID	V0910-31
EPH Surrogate Standards	Date Collected	9/9/10
Aliphatic: Chlorooctadecane	Date Received	9/10/10
Aromatic: o-Terphenyl	Date Extracted	9/15/10
EPH Fractionation Surrogates	Date Analyzed	9/15/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				68
Aromatic Surrogate % Recovery				91
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				102
Fractionation Surrogate % Recovery				70
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director.
PRINTED NAME: Richard Warila DATE: 9/17/2010

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	__ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-108
Method for Target Analytes:		Lab ID		V0910-31
EPH Surrogate Standards		Date Collected		9/9/10
Aliphatic: Chlorooctadecane		Date Received		9/10/10
Aromatic: o-Terphenyl		Date Extracted		9/15/10
EPH Fractionation Surrogates		Date Analyzed		9/15/10
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				42
Aromatic Surrogate % Recovery				94
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				104
Fractionation Surrogate % Recovery				88
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes __ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes __ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No __ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ____________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory _ Broken _ Leaking:
Aqueous Preservatives	_ N/A X pH<2 _ pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-109
Method for Target Analytes:	Lab ID	V0910-31
EPH Surrogate Standards	Date Collected	9/9/10
Aliphatic: Chlorooctadecane	Date Received	9/10/10
Aromatic: o-Terphenyl	Date Extracted	9/15/10
EPH Fractionation Surrogates	Date Analyzed	9/15/10
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				60
Aromatic Surrogate % Recovery				71
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				82
Fractionation Surrogate % Recovery				42
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

POSITION: Laboratory Director

PRINTED NAME: Richard Warila

DATE: 9/17/2010

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_ Satisfactory _ Broken _ Leaking:
Aqueous Preservatives	_ N/A _ pH<2 _ pH>2 Comment:
Temperature	Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	Method Blank
Method for Target Analytes:	Lab ID	V0910-31
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	NA
	Date Received	NA
	Date Extracted	9/15/10
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene	Date Analyzed	9/15/10
	Dilution Factor	1X
	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				55
Aromatic Surrogate % Recovery				73
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				78
Fractionation Surrogate % Recovery				57
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

```
            Spike Recovery and RPD Summary Report - WATER

Method        : C:\HPCHEM\1\METHODS\EPHALI.M (Chemstation Integrator)
Title         :
Last Update   : Fri Jul 30 08:57:59 2010
Response via  : Initial Calibration

Non-Spiked Sample:  J091503.D

           Spike                                Spike
           Sample                               Duplicate Sample
---------------------------------------------------------------------------
File ID :  J091504.D                          | J091505.D
Sample  :  LEW 9-15                           | LEWD 9-15
Acq Time:  15 Sep 2010  11:23 am              | 15 Sep 2010  11:54 am
---------------------------------------------------------------------------

Compound                   Sample Spike Spike  Dup  Spike  Dup   RPD    QC Limits
                            Conc  Added  Res   Res  %Rec  %Rec       RPD  % Rec
---------------------------------------------------------------------------
Nonane                    | 0.0 |  40 |  15 |  13 |  38 |  33 | 13 | 25 | 30-140|
Decane                    | 0.0 |  40 |  21 |  16 |  51 |  41 | 22 | 25 | 40-140|
Dodecane                  | 0.0 |  40 |  24 |  19 |  60 |  47 | 24 | 25 | 40-140|
Tetradecane               | 0.0 |  40 |  25 |  20 |  62 |  51 | 20 | 25 | 40-140|
Hexadecane                | 0.0 |  40 |  29 |  24 |  73 |  61 | 19 | 25 | 40-140|
Octadecane                | 0.0 |  40 |  32 |  26 |  81 |  66 | 20 | 25 | 40-140|
Nonadecane                | 0.0 |  40 |  31 |  24 |  78 |  61 | 25 | 25 | 40-140|
Eicosane                  | 0.0 |  40 |  34 |  28 |  86 |  71 | 20 | 25 | 40-140|
Docosane                  | 0.0 |  40 |  35 |  28 |  87 |  70 | 21 | 25 | 40-140|
Tetracosane               | 0.0 |  40 |  34 |  28 |  85 |  69 | 21 | 25 | 40-140|
Hexacosane                | 0.0 |  40 |  34 |  27 |  84 |  67 | 23 | 25 | 40-140|
Octacosane                | 0.0 |  40 |  34 |  28 |  85 |  69 | 21 | 25 | 40-140|
Triacontane               | 0.0 |  40 |  35 |  28 |  87 |  71 | 21 | 25 | 40-140|
Hexatriacontane           | 0.0 |  40 |  33 |  26 |  82 |  66 | 22 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


            EPHALI.M       Wed Sep 15 12:38:14 2010
```

```
            Spike Recovery and RPD Summary Report - WATER

Method       : C:\HPCHEM\2\METHODS\ARO.M (Chemstation Integrator)
Title        :
Last Update  : Mon Aug 09 08:17:24 2010
Response via : Initial Calibration

Non-Spiked Sample:  F091505.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  F091503.D                            | F091504.D
Sample  :  LEW 9-15                             | LEWD 9-15
Acq Time:  15 Sep 2010  11:28 am                | 15 Sep 2010  12:11 pm
---------------------------------------------------------------------------

Compound            Sample Spike Spike  Dup  Spike  Dup  RPD    QC Limits
                     Conc  Added  Res   Res  %Rec  %Rec       RPD  % Rec
---------------------------------------------------------------------------
Naphthalene         | 0.0 |  40 |  32 |  26 |  81 |  66 | 20 | 25 | 40-140|
2 methyl naphthalene| 0.0 |  40 |  28 |  23 |  69 |  57 | 19 | 25 | 40-140|
acenaphthylene      | 0.0 |  40 |  33 |  27 |  82 |  66 | 21 | 25 | 40-140|
Acenaphthene        | 0.0 |  40 |  35 |  28 |  88 |  69 | 24 | 25 | 40-140|
fluorene            | 0.0 |  40 |  35 |  29 |  88 |  72 | 20 | 25 | 40-140|
phenanthrene        | 0.0 |  40 |  36 |  29 |  89 |  73 | 20 | 25 | 40-140|
Anthracene          | 0.0 |  40 |  40 |  33 | 101 |  82 | 20 | 25 | 40-140|
Fluoranthene        | 0.0 |  40 |  40 |  32 |  99 |  81 | 21 | 25 | 40-140|
Pyrene              | 0.0 |  40 |  42 |  35 | 106 |  87 | 20 | 25 | 40-140|
Benzo(a)anthracene  | 0.0 |  40 |  40 |  32 | 100 |  81 | 21 | 25 | 40-140|
Chrysene            | 0.0 |  40 |  45 |  37 | 113 |  92 | 21 | 25 | 40-140|
Benzo(b)fluoranthene| 0.0 |  40 |  39 |  31 |  97 |  77 | 23 | 25 | 40-140|
Benzo(k)fluoranthene| 0.0 |  40 |  44 |  36 | 109 |  90 | 20 | 25 | 40-140|
Benzo(a)pyrene      | 0.0 |  40 |  40 |  32 |  99 |  80 | 22 | 25 | 40-140|
Indeno(123cd)pyrene | 0.0 |  40 |  30 |  30 |  76 |  76 |  1 | 25 | 40-140|
Dibenzo(ah)anthracen| 0.0 |  40 |  38 |  32 |  95 |  79 | 19 | 25 | 40-140|
Benzo(ghi)perylene  | 0.0 |  40 |  34 |  29 |  86 |  72 | 17 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


            ARO.M          Wed Sep 15 15:15:16 2010
```

RESULTS: VOLATILE ORGANIC COMPOUNDS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0910-31
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Environmental, Inc
Lab Sample ID: AE-102
Lab File ID: C091716.D
Date Sampled: 9/9/2010
Date Analyzed: 9/17/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.:	V0910-31	Client Name:	Action Environmental, Inc
Method:	8260	Lab Sample ID:	AE-102
Matrix: (soil/water)	WATER	Lab File ID:	C091716.D
Sample wt/vol:	5.0 (g/ml) ML	Date Sampled:	9/9/2010
% Moisture		Date Analyzed:	9/17/2010
Soil Extract Volume:	(uL)	Dilution Factor:	1.0
Analyst's Initials:		Soil Aliquot Volume:	(uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0910-31
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Environmental, Inc
Lab Sample ID: AE-108
Lab File ID: C091515.D
Date Sampled: 9/9/2010
Date Analyzed: 9/15/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0910-31

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials:

Client Name: Action Environmental, Inc

Lab Sample ID: AE-108

Lab File ID: C091515.D

Date Sampled: 9/9/2010

Date Analyzed: 9/15/2010

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0910-31
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Environmental, Inc
Lab Sample ID: AE-109
Lab File ID: C091516.D
Date Sampled: 9/9/2010
Date Analyzed: 9/15/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.:	V0910-31	Client Name:	Action Environmental, Inc
Method:	8260	Lab Sample ID:	AE-109
Matrix: (soil/water)	WATER	Lab File ID:	C091516.D
Sample wt/vol:	5.0 (g/ml) ML	Date Sampled:	9/9/2010
% Moisture		Date Analyzed:	9/15/2010
Soil Extract Volume:	(uL)	Dilution Factor:	1.0
Analyst's Initials:		Soil Aliquot Volume:	(uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	5.9	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	14	
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	92	
135-98-8	sec-Butylbenzene	8.4	
99-87-6	p-Isopropyltoluene	1.7	
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	2.6	
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.9	
87-61-6	1,2,3-Trichlorobenzene	1.0	U

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New England Testing Laboratory, Inc.

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.:	V0910-31	Client Name:	Action Environmental, Inc
Method:	8260	Lab Sample ID:	VBLK091510
Matrix: (soil/water)	WATER	Lab File ID:	C091506.D
Sample wt/vol:	5.0 (g/ml) ML	Date Sampled:	9/9/2010
% Moisture		Date Analyzed:	9/15/2010
Soil Extract Volume:	(uL)	Dilution Factor:	1.0
Analyst's Initials:		Soil Aliquot Volume:	(uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0910-31

Method: 8260

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials:

Client Name: Action Environmental, Inc

Lab Sample ID: VBLK091510

Lab File ID: C091506.D

Date Sampled: 9/9/2010

Date Analyzed: 9/15/2010

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

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NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: V0910-31
Method: 8260
Matrix: (soil/water) WATER
Sample wt/vol: 5.0 (g/ml) ML
% Moisture
Soil Extract Volume: (uL)
Analyst's Initials:

Client Name: Action Environmental, Inc
Lab Sample ID: VBLK091710
Lab File ID: C091715.D
Date Sampled: 9/9/2010
Date Analyzed: 9/17/2010
Dilution Factor: 1.0
Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.:	V0910-31	Client Name:	Action Environmental, Inc
Method:	8260	Lab Sample ID:	VBLK091710
Matrix: (soil/water)	WATER	Lab File ID:	C091715.D
Sample wt/vol:	5.0 (g/ml) ML	Date Sampled:	9/9/2010
% Moisture		Date Analyzed:	9/17/2010
Soil Extract Volume:	(uL)	Dilution Factor:	1.0
Analyst's Initials:		Soil Aliquot Volume:	(uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Laboratory Contract: 515 Somerville Av

Lab Code: RI010 Case No.: V0910-31 SAS No.: Action SDG No.: Action Env

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	LCS091510	105	90	104	0
02	LCSD091510	120	102	102	0
03	VBLK091510	92	102	100	0
04	AE-108	89	81	89	0
05	AE-109	113	88	88	0
06	LCS091710	102	98	101	0
07	LCSD091710	96	96	107	0
08	VBLK091710	118	79	92	0
09	AE-102	112	85	92	0

			QC LIMITS
SMC1	=	4-Bromofluorobenzene	(70-130)
SMC2	=	Toluene-D8	(70-130)
SMC3	=	1,2-Dichloroethane-D4	(70-130)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

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Volatile Organics LCS and LCSD Duplicate Results

LCS091510

Compound	LCS True Value	LCS Result	Recovery, %	LCSD True Value	LCSD Result	Recovery, %	Recovery QC Limits	Units	RPD, %	RPD Limits
Dichlorodifluoromethane	50	55.6	111	50	55.5	111	70-130%	ug/L	0.2	20.0
Chloromethane	50	60.2	120	50	61.4	123	70-130%	ug/L	2.0	20.0
Vinyl Chloride	50	50.8	102	50	54.8	110	70-130%	ug/L	7.6	20.0
Bromomethane	50	45.7	91	50	43.5	87	70-130%	ug/L	4.7	20.0
Chloroethane	50	39.8	80	50	39.2	78	70-130%	ug/L	1.5	20.0
Trichlorofluoromethane	50	40.3	81	50	40.5	81	70-130%	ug/L	0.4	20.0
1,1-Dichloroethene	50	46.0	92	50	45.0	90	70-130%	ug/L	2	20.0
Carbon Disulfide	50	41.9	84	50	40.7	81	70-130%	ug/L	2.8	20.0
Methylene Chloride	50	44.0	88	50	43.9	88	70-130%	ug/L	0.3	20.0
Acetone	50	39.5	79	50	38.2	76	70-130%	ug/L	3.3	20.0
Trans-1,2-dichloroethene	50	50.9	102	50	52.8	106	70-130%	ug/L	3.7	20.0
Tert-butyl Methyl Ether	50	49.0	98	50	51.6	103	70-130%	ug/L	5.0	20.0
Diisopropyl Ether	50	54.6	109	50	53.9	108	70-130%	ug/L	1.2	20.0
1,1-Dichloroethane	50	44.2	88	50	49.4	99	70-130%	ug/L	11.1	20.0
Ethyl Tery-butyl Ether	50	42.5	85	50	45.3	91	70-130%	ug/L	6.4	20.0
Cis-1,2-dichloroethene	50	41.5	83	50	41.2	82	70-130%	ug/L	0.7	20.0
2,2-Dichloropropane	50	50.3	101	50	49.5	99	70-130%	ug/L	1.6	20.0
Bromochloromethane	50	46.9	94	50	46.6	93	70-130%	ug/L	0.6	20.0
Chloroform	50	42.9	86	50	46.6	93	70-130%	ug/L	8.2	20.0
Carbon Tetrachloride	50	49.0	98	50	46.7	93	70-130%	ug/L	4.7	20.0
1,1,1-Trichloroethane	50	46.3	93	50	47.3	95	70-130%	ug/L	2.2	20.0
2-Butanone	50	48.6	97	50	50.3	101	70-130%	ug/L	3.4	20.0
1,1-Dichloropropene	50	45.6	91	50	48.4	97	70-130%	ug/L	5.9	20.0
Benzene	50	44.0	88	50	46.6	93	70-130%	ug/L	5.7	20.0
Tert-butyl Alcohol	50	47.7	95	50	57.3	115	70-130%	ug/L	18.2	20.0
Tert-amyl Methyl Ether	50	46.8	94	50	45.2	90	70-130%	ug/L	3.5	20.0
1,2-Dichloroethane	50	42.6	85	50	44.4	89	70-130%	ug/L	4.3	20.0
Trichloroethene	50	44.8	90	50	45.9	92	70-130%	ug/L	2.6	20.0
Dibromomethane	50	43.8	88	50	47.9	96	70-130%	ug/L	8.9	20.0
1,2-Dichloropropane	50	44.8	90	50	48.8	98	70-130%	ug/L	8.4	20.0
Bromodichloromethane	50	42.9	86	50	42.1	84	70-130%	ug/L	1.8	20.0
Cis-1,3-dichloropropene	50	48.7	97	50	47.8	96	70-130%	ug/L	1.9	20.0
2-CEVE	50	45.5	91	50	49.0	98	70-130%	ug/L	7.6	20.0
Toluene	50	38.7	77	50	41.5	83	70-130%	ug/L	7.1	20.0
4-Methyl-2-Pentanone	50	35.5	71	50	35.8	72	70-130%	ug/L	0.7	20.0
Tetrachloroethene	50	43.7	87	50	41.9	84	70-130%	ug/L	4.2	20.0
Trans-1,3-Dichloropropene	50	39.5	79	50	42.6	85	70-130%	ug/L	7.6	20.0
1,1,2-Trichloroethane	50	40.9	82	50	40.5	81	70-130%	ug/L	0.9	20.0
Dibromochloromethane	50	43.1	86	50	48.9	98	70-130%	ug/L	12.7	20.0
1,3-Dichloropropane	50	40.2	80	50	45.6	91	70-130%	ug/L	12.6	20.0
1,2-Dibromoethane	50	42.0	84	50	46.1	92	70-130%	ug/L	9.2	20.0
2-Hexanone	50	31.8	64	50	26.8	54	70-130%	ug/L	17.0	20.0
Chlorobenzene	50	42.1	84	50	45.4	91	70-130%	ug/L	7.6	20.0
Ethylbenzene	50	43.1	86	50	47.3	95	70-130%	ug/L	9.2	20.0
m,p-Xylene	100	88.3	88	100	93.2	93	70-130%	ug/L	5.4	20.0
1,1,1,2-Tetrachloroethane	50	45.5	91	50	48.3	97	70-130%	ug/L	6.0	20.0
o-Xylene	50	47.5	95	50	49.3	99	70-130%	ug/L	3.7	20.0
Styrene	50	44.3	89	50	43.2	86	70-130%	ug/L	2.3	20.0
Bromoform	50	51.3	103	50	50.3	101	70-130%	ug/L	2.0	20.0
Isopropylbenzene	50	40.4	81	50	41.8	84	70-130%	ug/L	3.4	20.0
Bromobenzene	50	42.0	84	50	48.3	97	70-130%	ug/L	13.9	20.0
n-Propylbenzene	50	45.3	91	50	47.7	95	70-130%	ug/L	5.1	20.0
1,1,2,2-Tetrachloroethene	50	47.1	94	50	54.7	109	70-130%	ug/L	15.1	20.0
2-Chlorotoluene	50	48.1	96	50	47.8	96	70-130%	ug/L	0.5	20.0
1,2,3-Trichloropropane	50	44.0	88	50	46.1	92	70-130%	ug/L	4.8	20.0
1,3,5-Trimethylbenzene	50	40.9	82	50	46.0	92	70-130%	ug/L	11.8	20.0
4-Chlorotoluene	50	45.4	91	50	47.2	94	70-130%	ug/L	4.0	20.0
Tert-butylbenzene	50	40.9	82	50	41.3	83	70-130%	ug/L	0.9	20.0
1,2,4-Trimethylbenzene	50	39.0	78	50	41.9	84	70-130%	ug/L	7.2	20.0
Sec-butylbenzene	50	42.4	85	50	44.4	89	70-130%	ug/L	4.4	20.0
p-Isopropyltoluene	50	36.6	73	50	38.7	77	70-130%	ug/L	5.7	20.0
1,3-Dichlorobenzene	50	38.9	78	50	41.3	83	70-130%	ug/L	6.1	20.0
1,4-Dichlorobenzene	50	44.5	89	50	45.5	91	70-130%	ug/L	2.1	20.0
n-Butyl Bezene	50	40.5	81	50	37.7	75	70-130%	ug/L	6.9	20.0
1,2-Dichlorbenzene	50	45.0	90	50	43.0	86	70-130%	ug/L	4.6	20.0
1,2-Dibromo-3-chloropr...	50	40.6	81	50	40.0	80	70-130%	ug/L	1.5	20.0
Hexachlorobutadiene	50	37.7	75	50	36.7	73	70-130%	ug/L	2.7	20.0
1,2,4-Trichlorobenzene	50	36.1	72	50	35.6	71	70-130%	ug/L	1.4	20.0
Naphthalene	50	40.0	80	50	36.7	73	70-130%	ug/L	8.5	20.0
1,2,3-Trichlorobenzene	50	35.3	71	50	35.9	72	70-130%	ug/L	1.7	20.0

Volatile Organics LCS and LCSD Duplicate Results

LCS091710

Compound	LCS True Value	LCS Result	Recovery, %	LCSD True Value	LCSD Result	Recovery, %	Recovery QC Limits	Units	RPD, %	RPD Limits
Dichlorodifluoromethane	50	48.4	**97**	50	42.6	**85**	70-130%	ug/L	**12.6**	20.0
Chloromethane	50	50.8	**102**	50	44.2	**88**	70-130%	ug/L	**13.7**	20.0
Vinyl Chloride	50	55.3	**111**	50	49.7	**99**	70-130%	ug/L	**10.6**	20.0
Bromomethane	50	61.9	**124**	50	61.8	**124**	70-130%	ug/L	**0.2**	20.0
Chloroethane	50	57.5	**115**	50	59.3	**119**	70-130%	ug/L	**3.1**	20.0
Trichlorofluoromethane	50	54.2	**108**	50	50.8	**102**	70-130%	ug/L	**6.4**	20.0
Diethyl Ether	50	48.6	**97**	50	48.9	**98**	70-130%	ug/L	**1**	20.0
1,1-Dichloroethene	50	51.8	**104**	50	49.3	**99**	70-130%	ug/L	**5.0**	20.0
Carbon Disulfide	50	55.5	**111**	50	51.9	**104**	70-130%	ug/L	**6.7**	20.0
Methylene Chloride	50	50.8	**102**	50	49.0	**98**	70-130%	ug/L	**3.6**	20.0
Acetone	50	57.4	**115**	50	63.2	**126**	70-130%	ug/L	**9.7**	20.0
Trans-1,2-dichloroethene	50	53.3	**107**	50	50.4	**101**	70-130%	ug/L	**5.7**	20.0
Tert-butyl Methyl Ether	50	50.1	**100**	50	50.2	**100**	70-130%	ug/L	**0.1**	20.0
Diisopropyl Ether	50	52.0	**104**	50	50.4	**101**	70-130%	ug/L	**3.1**	20.0
1,1-Dichloroethane	50	51.9	**104**	50	49.2	**98**	70-130%	ug/L	**5.4**	20.0
Ethyl Tery-butyl Ether	50	50.4	**101**	50	50.5	**101**	70-130%	ug/L	**0.2**	20.0
Cis-1,2-dichloroethene	50	46.2	**92**	50	48.1	**96**	70-130%	ug/L	**4.0**	20.0
2,2-Dichloropropane	50	55.4	**111**	50	51.8	**104**	70-130%	ug/L	**6.7**	20.0
Bromochloromethane	50	50.7	**101**	50	47.6	**95**	70-130%	ug/L	**6.3**	20.0
Chloroform	50	50.0	**100**	50	47.4	**95**	70-130%	ug/L	**5.3**	20.0
Carbon Tetrachloride	50	52.5	**105**	50	49.3	**99**	70-130%	ug/L	**6.4**	20.0
Tetrahydrofuran	50	48.2	**96**	50	39.7	**79**	70-130%	ug/L	**19.3**	20.0
1,1,1-Trichloroethane	50	51.3	**103**	50	47.9	**96**	70-130%	ug/L	**6.7**	20.0
2-Butanone	50	55.4	**111**	50	58.0	**116**	70-130%	ug/L	**4.6**	20.0
1,1-Dichloropropene	50	49.0	**98**	50	48.3	**97**	70-130%	ug/L	**1.6**	20.0
Benzene	50	50.9	**102**	50	49.4	**99**	70-130%	ug/L	**2.9**	20.0
Tert-butyl Alcohol	50	54.5	**109**	50	43.3	**87**	70-130%	ug/L	**22.7**	20.0
Tert-amyl Methyl Ether	50	47.8	**96**	50	47.0	**94**	70-130%	ug/L	**1.7**	20.0
1,2-Dichloroethane	50	47.8	**96**	50	47.9	**96**	70-130%	ug/L	**0.3**	20.0
Trichloroethene	50	50.4	**101**	50	48.4	**97**	70-130%	ug/L	**4.0**	20.0
Dibromomethane	50	47.6	**95**	50	47.1	**94**	70-130%	ug/L	**0.9**	20.0
1,2-Dichloropropane	50	48.8	**98**	50	46.8	**94**	70-130%	ug/L	**4.2**	20.0
Bromodichloromethane	50	48.4	**97**	50	47.4	**95**	70-130%	ug/L	**2.0**	20.0
Cis-1,3-dichloropropene	50	60.5	**121**	50	60.7	**121**	70-130%	ug/L	**0.4**	20.0
2-CEVE	50	57.4	**115**	50	53.6	**107**	70-130%	ug/L	**6.9**	20.0
Toluene	50	52.3	**105**	50	48.8	**98**	70-130%	ug/L	**6.8**	20.0
4-Methyl-2-Pentanone	50	51.2	**102**	50	50.7	**101**	70-130%	ug/L	**0.8**	20.0
Tetrachloroethene	50	49.5	**99**	50	47.1	**94**	70-130%	ug/L	**5.1**	20.0
Trans-1,3-Dichloropropene	50	56.8	**114**	50	55.8	**112**	70-130%	ug/L	**1.7**	20.0
1,1,2-Trichloroethane	50	59.5	**119**	50	54.1	**108**	70-130%	ug/L	**9.6**	20.0
Dibromochloromethane	50	62.1	**124**	50	58.0	**116**	70-130%	ug/L	**6.9**	20.0
1,3-Dichloropropane	50	57.4	**115**	50	55.5	**111**	70-130%	ug/L	**3.4**	20.0
1,2-Dibromoethane	50	60.4	**121**	50	59.9	**120**	70-130%	ug/L	**0.8**	20.0
2-Hexanone	50	49.4	**99**	50	45.1	**90**	70-130%	ug/L	**9.1**	20.0
Chlorobenzene	100	49.6	**50**	100	44.9	**45**	70-130%	ug/L	**10.0**	20.0
Ethylbenzene	50	44.4	**89**	50	41.2	**82**	70-130%	ug/L	**7.5**	20.0
m,p-Xylene	50	89.3	**179**	50	81.2	**162**	70-130%	ug/L	**9.5**	20.0
1,1,1,2-Tetrachloroethane	50	51.7	**103**	50	46.0	**92**	70-130%	ug/L	**11.6**	20.0
o-Xylene	50	51.9	**104**	50	47.9	**96**	70-130%	ug/L	**8.0**	20.0
Styrene	50	56.7	**113**	50	54.3	**109**	70-130%	ug/L	**4.3**	20.0
Bromoform	50	54.7	**109**	50	51.7	**103**	70-130%	ug/L	**5.6**	20.0
Isopropylbenzene	50	55.5	**111**	50	51.2	**102**	70-130%	ug/L	**8.2**	20.0
Bromobenzene	50	56.6	**113**	50	55.5	**111**	70-130%	ug/L	**2.0**	20.0
n-Propylbenzene	50	46.2	**92**	50	42.5	**85**	70-130%	ug/L	**8.2**	20.0
1,1,2,2-Tetrachloroethene	50	51.7	**103**	50	45.8	**92**	70-130%	ug/L	**12.1**	20.0
2-Chlorotoluene	50	44.0	**88**	50	40.3	**81**	70-130%	ug/L	**8.8**	20.0
1,2,3-Trichloropropane	50	50.1	**100**	50	48.8	**98**	70-130%	ug/L	**2.5**	20.0
1,3,5-Trimethylbenzene	50	41.3	**83**	50	38.7	**77**	70-130%	ug/L	**6.4**	20.0
4-Chlorotoluene	50	43.8	**88**	50	40.7	**81**	70-130%	ug/L	**7.3**	20.0
Tert-butylbenzene	50	47.3	**95**	50	44.6	**89**	70-130%	ug/L	**5.9**	20.0
1,2,4-Trimethylbenzene	50	41.7	**83**	50	38.6	**77**	70-130%	ug/L	**7.7**	20.0
Sec-butylbenzene	50	40.9	**82**	50	37.3	**75**	70-130%	ug/L	**9.2**	20.0
p-Isopropyltoluene	50	40.1	**80**	50	37.3	**75**	70-130%	ug/L	**7.3**	20.0
1,3-Dichlorobenzene	50	42.6	**85**	50	39.2	**78**	70-130%	ug/L	**8.3**	20.0
1,4-Dichlorobenzene	50	47.4	**95**	50	46.7	**93**	70-130%	ug/L	**1.6**	20.0
n-Butyl Bezene	50	55.2	**110**	50	52.1	**104**	70-130%	ug/L	**5.7**	20.0
1,2-Dichlorbenzene	50	44.5	**89**	50	44.7	**89**	70-130%	ug/L	**0.4**	20.0
1,2-Dibromo-3-chloropr...	50	47.7	**95**	50	51.0	**102**	70-130%	ug/L	**6.6**	20.0
Hexachlorobutadiene	50	47.1	**94**	50	45.4	**91**	70-130%	ug/L	**3.6**	20.0
1,2,4-Trichlorobenzene	50	44 1	**88**	50	43.2	**86**	70-130%	ug/L	**1.9**	20.0
Naphthalene	50	53.3	**107**	50	58.4	**117**	70-130%	ug/L	**9.1**	20.0
1,2,3-Trichlorobenzene	50	49.8	**100**	50	52.2	**104**	70-130%	ug/L	**4.8**	20.0

RESULTS: VOLATILE PETROLEUM HYDROCARBONS

Results for VPH analysis are presented in the following section. Each page is electronically signed.

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-101
Method for Target Analytes:			Lab ID	V0910-31
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	9/9/10
			Date Received	9/10/10
			Date Analyzed	9/13/10
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				107
FID Surrogate % Recovery				97
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ____________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-102
Method for Target Analytes:	Lab ID	V0910-31
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	9/9/10
	Date Received	9/10/10
	Date Analyzed	9/13/10
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				110
FID Surrogate % Recovery				100
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

POSITION: Laboratory Director

PRINTED NAME: Richard Warila

DATE: 9/17/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-103
Method for Target Analytes:	Lab ID	V0910-31
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	9/9/10
	Date Received	9/10/10
	Date Analyzed	9/13/10
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	Elution Range	RL	Units	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				107
FID Surrogate % Recovery				98
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director.

PRINTED NAME: Richard Warila DATE: 9/17/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-104
Method for Target Analytes:	Lab ID	V0910-31
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	9/9/10
	Date Received	9/10/10
	Date Analyzed	9/13/10
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	Elution Range	RL	Units	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				104
FID Surrogate % Recovery				93
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached

Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-106
Method for Target Analytes:			Lab ID	V0910-31
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	9/9/10
			Date Received	9/10/10
			Date Analyzed	9/13/10
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				107
FID Surrogate % Recovery				98
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-107
Method for Target Analytes:	Lab ID	V0910-31
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	9/9/10
	Date Received	9/10/10
	Date Analyzed	9/13/10
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	Elution Range	RL	Units	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				107
FID Surrogate % Recovery				92
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-108
Method for Target Analytes:			Lab ID	V0910-31
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	9/9/10
			Date Received	9/10/10
			Date Analyzed	9/13/10
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				109
FID Surrogate % Recovery				91
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-109
Method for Target Analytes:			Lab ID	V0910-31
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	9/9/10
			Date Received	9/10/10
			Date Analyzed	9/13/10
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	570
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	260
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	310
PID Surrogate % Recovery				104
FID Surrogate % Recovery				108
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	_ Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	_ Received on Ice _ Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	Method Blank
Method for Target Analytes:			Lab ID	V0910-31
VPH Surrogate Standards			Date Collected	NA
PID: 2,5- Dibromotoluene			Date Received	NA
FID: 2,5- Dibromotoluene			Date Analyzed	9/13/10
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics^1	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics^1	N/A	50	ug/L	<50
Benzene	C5-C8	5	ug/L	<5
Ethylbenzene	C9-C12	5	ug/L	<5
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5	ug/L	<5
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons^{1,2}	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons^{1,3}	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons^1	N/A	50	ug/L	<50
PID Surrogate % Recovery				101
FID Surrogate % Recovery				86
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 9/17/2010

```
            Spike Recovery and RPD Summary Report - WATER

Method       : C:\HPCHEM\1\METHODS\VPHQUANT.M (Chemstation Integrator)
Title        :
Last Update  : Tue Sep 14 12:03:25 2010
Response via : Initial Calibration

Non-Spiked Sample:  D091305.D

           Spike                                   Spike
           Sample                                  Duplicate Sample
----------------------------------------------------------------------------
File ID :  D091302.D                             | D091303.D
Sample  :  LCS091310                             | LCSD091310
Acq Time:  13 Sep 2010  10:41 am                 | 13 Sep 2010  11:22 am
----------------------------------------------------------------------------

Compound                Sample Spike  Spike   Dup   Spike  Dup   RPD    QC Limits
                         Conc  Added  Res     Res   %Rec   %Rec       RPD  % Rec
----------------------------------------------------------------------------
Pentane                 | 0.0 |  50 |  55 |  53 | 111 | 107 |  4 | 25 | 70-130|
2-Methyl pentane        | 0.0 |  50 |  59 |  62 | 118 | 124 |  5 | 25 | 70-130|
2,2,4-trimethylpenta| 0.0 |  50 |  62 |  63 | 124 | 126 |  1 | 25 | 70-130|
Nonane                  | 0.0 |  50 |  42 |  42 |  85 |  84 |  1 | 25 | 70-130|
n-decane                | 0.0 |  50 |  53 |  54 | 106 | 109 |  2 | 25 | 70-130|
n-butylcyclohexane      | 0.0 |  50 |  58 |  58 | 116 | 116 |  0 | 25 | 70-130|
MTBE #2                 | 0.0 |  50 |  58 |  58 | 116 | 115 |  1 | 25 | 70-130|
Benzene #2              | 0.0 |  50 |  58 |  59 | 116 | 119 |  3 | 25 | 70-130|
Toluene #2              | 0.0 |  50 |  44 |  46 |  88 |  91 |  4 | 25 | 70-130|
Ethylbenzene #2         | 0.0 |  50 |  47 |  47 |  95 |  93 |  2 | 25 | 70-130|
M&P Xylene #2           | 0.0 | 100 |  90 |  94 |  90 |  94 |  4 | 25 | 70-130|
O Xylene #2             | 0.0 |  50 |  38 |  41 |  75 |  82 |  9 | 25 | 70-130|
1,2,4-Trimethylbenze| 0.0 |  50 |  41 |  43 |  82 |  86 |  4 | 25 | 70-130|
Naphthlene              | 0.0 |  50 |  40 |  45 |  79 |  91 | 13 | 25 | 70-130|
----------------------------------------------------------------------------

  # - Fails Limit Check



            VPHQUANT.M     Fri Sep 17 11:20:51 2010
```

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Ave.
North Providence, RI 02904
1-888-863-8522

V0910-31

CHAIN OF CUSTODY RECORD

PROJ. NO. 3120

PROJECT NAME/LOCATION 515 Somerville Ave, Somerville, MA

CLIENT Action Environmental

REPORT TO: Bob Houghton

INVOICE TO: Andrew Clemens

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	EPH	VPH	VOCs (8260)			REMARKS
9/9/10	1.45		X	AE-101	X			3	HCl	X	X				
	1:10		X	AE-102	X			3		X	X	X			
	12:40		X	AE-103	X			3		X	X				
	12.10		X	AE-104	X			3		X	X				
	10:30		X	AE-106	X			3		X	X				
	11:10		X	AE-107	X			3		X	X				
	11:40		X	AE-108	X			3		X	X	X			
	2:15		X	AE-109	X			3		X	X	X			

Sampled by: (Signature)	Date/Time 9/9/10 3.40	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time 9/10/10 11:00	Received by: (Signature)	Date/Time 9-10-10 11:00
Relinquished by: (Signature)	Date/Time 9-10-10 3:30	Received for Laboratory by: (Signature)	Date/Time 9/10/10 3.30

Laboratory Remarks:
Temp. received: 5°
Cooled ☐

Special Instructions:
List Specific Detection
Limit Requirements:
MCP GW 2-3

Turnaround (Business Days) 5 business days

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number W0125-31

Prepared for:

Attn: Robert Houghton
Action Environmental, Inc.
184 Riverview Ave.
Waltham, MA 02453

Report Date: February 1, 2011

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 10

MassDEP Analytical Protocol Certification Form

Laboratory Name:.New England Testing Laboratory Project #: 3120

Project Location: 515 Somerville Avenue, Somerville, MA RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
W0125-31

Matrices: Groundwater/Surface Water x Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A x	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	X Yes No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	X Yes No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	X Yes No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	X Yes No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes No Yes No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	X Yes No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	X Yes No[1]

***Data User Note:** Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	X Yes No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	X Yes No[1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:_______________ **Position:** Laboratory Director

Printed Name: Richard Warila **Date:** 2/1/2011

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on January 25, 2011. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is W0125-31.

Custody records are included in this report.

Site: 515 Somerville Avenue, Somerville, MA

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
Composite Sidewall CSW-1	1/25/11	Soil	Table II
Excav. Floor EF-2	1/25/11	Soil	Table II

TABLE II, Analysis and Methods

ANALYSIS	DETERMINATIVE METHOD
PCBs	8082

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.

CASE NARRATIVE:

Sample Receipt:

No trip blank was supplied. No field blank was supplied. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits).

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

PCBs:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

RESULTS: PCBs

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

Sample: Composite Sidewall CSW-1		Analyst's Initials: NS
Case No.: W0125-31		
Date Collected: 1/25/11		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3541	01/28/11	01/28/11
Analytical Method: EPA 8082		
Compound	Concentration ug/kg* (ppb)	Reporting Limit
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016/1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	53	39-120
DCBP	59	34-140

*Dry Weight Basis

Sample: Excav. Floor EF-2		Analyst's Initials: NS
Case No.: W0125-31		
Date Collected: 1/25/11		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3541	01/28/11	01/28/11
Analytical Method: EPA 8082		
Compound	Concentration ug/kg* (ppb)	Reporting Limit
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016/1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	65	39-120
DCBP	65	34-140

*Dry Weight Basis

Sample: Method Blank		Analyst's Initials: NS
Case No.: W0125-31		
Date Collected: NA		
Sample Matrix: Soil		
Subject: PCBs	Date Extracted	Date Analyzed
Prep Method: EPA 3541	01/28/11	01/28/11
Analytical Method: EPA 8082		
Compound	Concentration ug/kg (ppb)	Reporting Limit
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016/1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	73	39-120
DCBP	86	34-140

PCB Laboratory Control Spike

Sample Matrix: Soil				
Subject: PCB	Date Extracted			Date Analyzed
Prep Method: EPA 3540C	1/28/11			1/28/11
Analytical Method: EPA 8082				
Compound	Amount Spiked mg/kg	Result mg/kg	Recovery %	Recovery Limits
Aroclor 1016	0.500	0.413	83	46-130
Aroclor 1260	0.500	0.4522	90	55-130
Surrogates:				
Compound	% Recovery	Limits		
TCMX	83	39-120		
DCBP	94	34-140		

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue
North Providence, RI 02904
1-888-863-8522

W0125-31

CHAIN OF CUSTODY RECORD

PROJ. NO. 3120
PROJECT NAME/LOCATION 515 SOMERVILLE AVE.; SOMERVILLE, MA
CLIENT ACTION ENVIRONMENTAL BOSTON, 184 RIVERVIEW AVE, 1ST FL; WALTHAM, MA 02453
REPORT TO: ROBERT HOUGHTON
INVOICE TO: ANDREW CLEMONS

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS** PCBS					REMARKS
1/25/11	1230	X		COMPOSITE SIDEWALLS - CSW-1		X		1	CHILL	X					RTN 3-28548
"	1245		X	EXCAV FLOOR EF-2		X		1	"	X					

Sampled by: (Signature)	Date/Time 1/25/11 1410	Received by: (Signature)	Date/Time
Relinquished by: (Signature) R Houghton	Date/Time 1/25/11 1415	Received by. (Signature) Robert Lee	Date/Time 1/25/11 1415
Relinquished by: (Signature) Robert Lee	Date/Time 1/25/11 1540	Received for Laboratory by: (Signature)	Date/Time 1/25/11 15:40

Laboratory Remarks:
Temp. received: 4°C
Cooled ☐

Special Instructions:
List Specific Detection Limit Requirements: MCP
S-1/GW-2/3

NORMAL
Turnaround (Business Days) 5-DAY

**Netlab Subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

NETLAB

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number W0204-23

Prepared for:

Attn: Robert Houghton
Action Environmental, Inc.
184 Riverview Ave.
Waltham, MA 02453

Report Date: February 10, 2011

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 28

MassDEP Analytical Protocol Certification Form

Laboratory Name:.New England Testing Laboratory Project #:3120

Project Location: 515 Somerville Avenue, Somerville, MA RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s): W0204-23

Matrices: x Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A x	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B x	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	X Yes No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	X Yes No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	X Yes No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	X Yes No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	X Yes No Yes No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	X Yes No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	X Yes No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	X Yes No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	X Yes No[1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Laboratory Director

Printed Name: Richard Warila

Date: 2/10/2011

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on February 4, 2011. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provide to us by the client which are indicated on the custody record. The case number for this sample submission is W0204-23.

Custody records are included in this report.

Site: 515 Somerville Avenue, Somerville, MA

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
AE-101	2/4/11	Water	Table II
AE-102	2/4/11	Water	Table II
AE-103	2/4/11	Water	Table II
AE-104	2/4/11	Water	Table II
AE-106	2/4/11	Water	Table II
AE-107	2/4/11	Water	Table II
AE-108	2/4/11	Water	Table II
AE-109	2/4/11	Water	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
VPH	NA	*
EPH	NA	**

These methods are documented in:

*Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MADEP.

**Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MADEP.

CASE NARRATIVE:

Sample Receipt:

No trip blank was supplied. No field blank was supplied. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits).

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

EPH:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria

VPH:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

RESULTS: EXTRACTABLE PETROLEUM HYDROCARBONS

Results for EPH analysis are presented in the following section. Each page is electronically signed.

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	__ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	_X_ Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-101
Method for Target Analytes:		Lab ID		W0204-23
EPH Surrogate Standards		Date Collected		2/4/11
Aliphatic: Chlorooctadecane		Date Received		2/4/11
Aromatic: o-Terphenyl		Date Extracted		2/7/11
EPH Fractionation Surrogates		Date Analyzed		2/8/11
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	0.499
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	0.80
	Dibenzo(a,h)anthracene	0.5	ug/L	2.34
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				44
Aromatic Surrogate % Recovery				88
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				140
Fractionation Surrogate % Recovery				126
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director
PRINTED NAME: Richard Warila DATE: 2/10/2011

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	X Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	__ N/A X pH<2 __ pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-102
Method for Target Analytes:		Lab ID		W0204-23
EPH Surrogate Standards		Date Collected		2/4/11
Aliphatic: Chlorooctadecane		Date Received		2/4/11
Aromatic: o-Terphenyl		Date Extracted		2/7/11
EPH Fractionation Surrogates		Date Analyzed		2/8/11
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				46
Aromatic Surrogate % Recovery				81
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				124
Fractionation Surrogate % Recovery				111
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed?	X Yes	__ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	__ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3?	X No	__ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	__ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	_X_ Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-103
Method for Target Analytes:		Lab ID		W0204-23
EPH Surrogate Standards		Date Collected		2/4/11
Aliphatic: Chlorooctadecane		Date Received		2/4/11
Aromatic: o-Terphenyl		Date Extracted		2/7/11
EPH Fractionation Surrogates		Date Analyzed		2/8/11
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				53
Aromatic Surrogate % Recovery				87
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				122
Fractionation Surrogate % Recovery				103
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory _ Broken _ Leaking:
Aqueous Preservatives	_ N/A _X_ pH<2 _ pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-104
Method for Target Analytes:	Lab ID	W0204-23
EPH Surrogate Standards	Date Collected	2/4/11
Aliphatic: Chlorooctadecane	Date Received	2/4/11
Aromatic: o-Terphenyl	Date Extracted	2/7/11
EPH Fractionation Surrogates	Date Analyzed	2/8/11
2-Fluorobiphenyl	Dilution Factor	1X
2-Bromonaphthalene	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				49
Aromatic Surrogate % Recovery				92
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				132
Fractionation Surrogate % Recovery				116
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

POSITION: Laboratory Director

PRINTED NAME: Richard Warila

DATE: 2/10/2011

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	_ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-106
Method for Target Analytes:		Lab ID		W0204-23
EPH Surrogate Standards		Date Collected		2/4/11
Aliphatic: Chlorooctadecane		Date Received		2/4/11
Aromatic: o-Terphenyl		Date Extracted		2/7/11
EPH Fractionation Surrogates		Date Analyzed		2/8/11
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				48
Aromatic Surrogate % Recovery				90
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				138
Fractionation Surrogate % Recovery				122
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? X Yes _ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved? X Yes _ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3? X No _ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:
POSITION: Laboratory Director
PRINTED NAME: Richard Warila
DATE: 2/10/2011

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	__ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-107
Method for Target Analytes:		Lab ID		W0204-23
EPH Surrogate Standards		Date Collected		2/4/11
Aliphatic: Chlorooctadecane		Date Received		2/4/11
Aromatic: o-Terphenyl		Date Extracted		2/7/11
EPH Fractionation Surrogates		Date Analyzed		2/8/11
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	0.782
	Dibenzo(a,h)anthracene	0.5	ug/L	1.59
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				52
Aromatic Surrogate % Recovery				84
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				111
Fractionation Surrogate % Recovery				95
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed?	X Yes	__ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	__ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3?	X No	__ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory __ Broken __ Leaking:
Aqueous Preservatives	__ N/A _X_ pH<2 __ pH>2 Comment:
Temperature	X Received on Ice Received at 4 ° C Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		AE-108
Method for Target Analytes:		Lab ID		W0204-23
EPH Surrogate Standards		Date Collected		2/4/11
Aliphatic: Chlorooctadecane		Date Received		2/4/11
Aromatic: o-Terphenyl		Date Extracted		2/7/11
EPH Fractionation Surrogates		Date Analyzed		2/8/11
2-Fluorobiphenyl		Dilution Factor		1X
2-Bromonaphthalene		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	0.676
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				48
Aromatic Surrogate % Recovery				78
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				115
Fractionation Surrogate % Recovery				102
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed?	X Yes	__ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	__ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3?	X No	__ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_X_ Satisfactory ___ Broken ___ Leaking:
Aqueous Preservatives	___ N/A _X_ pH<2 ___ pH>2 Comment:
Temperature	_X_ Received on Ice Received at 4 ° C ___ Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1	Client ID	AE-109
Method for Target Analytes:	Lab ID	W0204-23
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	2/4/11
	Date Received	2/4/11
	Date Extracted	2/7/11
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene	Date Analyzed	2/8/11
	Dilution Factor	1X
	% Moisture (soil)	N/A

RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				59
Aromatic Surrogate % Recovery				98
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				134
Fractionation Surrogate % Recovery				116
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed? _X_ Yes __ No-Details Attached

Were all performance/acceptance standards for the required QA/QC procedures achieved? _X_ Yes __ No-Details Attached

Were any significant modifications made to the EPH method, as specified in Section 11.3? _X_ No __ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

APPENDIX 3: REQUIRED EPH DATA REPORTING FORMAT/INFORMATION

SAMPLE INFORMATION

Matrix	X Aqueous Soil Sediment Other:
Containers	_ Satisfactory _ Broken _ Leaking:
Aqueous Preservatives	_ N/A _ pH<2 _ pH>2 Comment:
Temperature	Received on Ice Received at 4 ° C _ Other:
Extraction Method	Water: Separatory Funnel Soil: N/A

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 98-1		Client ID		Method Blank
Method for Target Analytes:		Lab ID		W0204-23
EPH Surrogate Standards Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected		NA
		Date Received		NA
		Date Extracted		2/7/11
EPH Fractionation Surrogates 2-Fluorobiphenyl 2-Bromonaphthalene		Date Analyzed		2/8/11
		Dilution Factor		1X
		% Moisture (soil)		N/A
RANGE/TARGET ANALYTE		**RL**	**Units**	
Unadjusted C11-C22 Aromatics[1]		150	ug/L	<150
Diesel PAH Analytes	Naphthalene	1.0	ug/L	<1.0
	2-Methylnaphthalene	1.0	ug/L	<1.0
	Phenanthrene	1.0	ug/L	<1.0
	Acenaphthylene	1.0	ug/L	<1.0
Other Target PAH Analytes	Acenaphthene	5.0	ug/L	<5.0
	Fluorene	5.0	ug/L	<5.0
	Anthracene	5.0	ug/L	<5.0
	Fluoranthene	5.0	ug/L	<5.0
	Pyrene	5.0	ug/L	<5.0
	Benzo(a)anthracene	1.0	ug/L	<1.0
	Chrysene	2.0	ug/L	<2.0
	Benzo(b)fluoranthene	1.0	ug/L	<1.0
	Benzo(k)fluoranthene	1.0	ug/L	<1.0
	Benzo(a)pyrene	0.2	ug/L	<0.2
	Indeno(1,2,3-cd)pyrene	0.5	ug/L	<0.5
	Dibenzo(a,h)anthracene	0.5	ug/L	<0.5
	Benzo(g,h,i)perylene	5.0	ug/L	<5.0
C9-C18 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C19-C36 Aliphatic Hydrocarbons[1]		200	ug/L	<200
C11-C22 Aromatic Hydrocarbons[1,2]		150	ug/L	<150
Aliphatic Surrogate % Recovery				51
Aromatic Surrogate % Recovery				77
Sample Surrogate Acceptance Range				40-140%
Fractionation Surrogate % Recovery				99
Fractionation Surrogate % Recovery				84
Fractionation Surrogate Acceptance Range				40-140%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

CERTIFICATION

Were all QA/QC procedures REQUIRED by the EPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the EPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

```
            Spike Recovery and RPD Summary Report - WATER

Method       : C:\HPCHEM\1\METHODS\EPHALI1.M (Chemstation Integrator)
Title        :
Last Update  : Fri Jan 28 09:35:27 2011
Response via : Initial Calibration

Non-Spiked Sample:  J020803.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
---------------------------------------------------------------------------
File ID :  J020804.D                            | J020805.D
Sample  :  LEW 2-7 HX                           | LEWD 2-7 HX
Acq Time:  8 Feb 2011  11:14 am                 |  8 Feb 2011  11:43 am
---------------------------------------------------------------------------

Compound                Sample Spike Spike  Dup  Spike  Dup  RPD    QC Limits
                         Conc  Added  Res   Res  %Rec  %Rec      RPD  % Rec
---------------------------------------------------------------------------
Nonane                  | 0.0 |  40 |  16 |  13 |  40 |  33 | 20 | 25 | 30-140|
Decane                  | 0.0 |  40 |  17 |  16 |  42 |  41 |  2 | 25 | 40-140|
Dodecane                | 0.0 |  40 |  18 |  16 |  44 |  41 |  9 | 25 | 40-140|
Tetradecane             | 0.0 |  40 |  20 |  19 |  49 |  47 |  6 | 25 | 40-140|
Hexadecane              | 0.0 |  40 |  21 |  21 |  53 |  52 |  2 | 25 | 40-140|
Octadecane              | 0.0 |  40 |  23 |  23 |  57 |  56 |  1 | 25 | 40-140|
Nonadecane              | 0.0 |  40 |  22 |  21 |  55 |  53 |  4 | 25 | 40-140|
Eicosane                | 0.0 |  40 |  24 |  24 |  61 |  60 |  3 | 25 | 40-140|
Docosane                | 0.0 |  40 |  24 |  23 |  60 |  59 |  3 | 25 | 40-140|
Tetracosane             | 0.0 |  40 |  24 |  23 |  59 |  57 |  4 | 25 | 40-140|
Hexacosane              | 0.0 |  40 |  23 |  22 |  58 |  55 |  5 | 25 | 40-140|
Octacosane              | 0.0 |  40 |  24 |  22 |  59 |  55 |  8 | 25 | 40-140|
Triacontane             | 0.0 |  40 |  24 |  22 |  59 |  55 |  8 | 25 | 40-140|
Hexatriacontane         | 0.0 |  40 |  23 |  20 |  57 |  50 | 12 | 25 | 40-140|
---------------------------------------------------------------------------

  # - Fails Limit Check


            EPHALI1.M      Wed Feb 09 09:24:11 2011
```

```
            Spike Recovery and RPD Summary Report - WATER

Method        : C:\HPCHEM\2\METHODS\ARO1-25.M (Chemstation Integrator)
Title         :
Last Update   : Mon Feb 07 11:09:17 2011
Response via  : Initial Calibration

Non-Spiked Sample:  F020803.D

           Spike                                  Spike
           Sample                                 Duplicate Sample
--------------------------------------------------------------------------
File ID :  F020804.D                            | F020805.D
Sample  :  LEW ME 2-7                           | LEWD ME 2-7
Acq Time:  8 Feb 2011  12:19 pm                 | 8 Feb 2011   1:05 pm
--------------------------------------------------------------------------

Compound                   Sample Spike Spike   Dup  Spike  Dup  RPD     QC Limits
                            Conc  Added  Res    Res  %Rec  %Rec      RPD  % Rec
--------------------------------------------------------------------------
Naphthalene                | 0.0 |  40 |  27 |  21 |  68 |  53 | 24 | 25 | 40-140|
2 methyl naphthalene| 0.0 |  40 |  28 |  24 |  71 |  60 | 17 | 25 | 40-140|
acenaphthylene             | 0.0 |  40 |  33 |  27 |  81 |  67 | 20 | 25 | 40-140|
Acenaphthene               | 0.0 |  40 |  32 |  26 |  80 |  66 | 20 | 25 | 40-140|
fluorene                   | 0.0 |  40 |  35 |  30 |  87 |  75 | 15 | 25 | 40-140|
phenanthrene               | 0.0 |  40 |  42 |  37 | 106 |  93 | 13 | 25 | 40-140|
Anthracene                 | 0.0 |  40 |  38 |  33 |  94 |  83 | 13 | 25 | 40-140|
Fluoranthene               | 0.0 |  40 |  44 |  38 | 110 |  94 | 16 | 25 | 40-140|
Pyrene                     | 0.0 |  40 |  45 |  38 | 112 |  95 | 17 | 25 | 40-140|
Benzo(a)anthracene         | 0.0 |  40 |  48 |  40 | 119 | 101 | 17 | 25 | 40-140|
Chrysene                   | 0.0 |  40 |  42 |  36 | 106 |  91 | 16 | 25 | 40-140|
Benzo(b)fluoranthene| 0.0 |  40 |  50 |  41 | 126 | 103 | 20 | 25 | 40-140|
Benzo(k)fluoranthene| 0.0 |  40 |  43 |  37 | 108 |  93 | 15 | 25 | 40-140|
Benzo(a)pyrene             | 0.0 |  40 |  43 |  36 | 108 |  89 | 19 | 25 | 40-140|
Indeno(123cd)pyrene | 0.0 |  40 |  45 |  40 | 113 | 100 | 12 | 25 | 40-140|
Dibenzo(ah)anthracen| 0.0 |  40 |  42 |  38 | 106 |  94 | 12 | 25 | 40-140|
Benzo(ghi)perylene   | 0.0 |  40 |  48 |  39 | 119 |  98 | 19 | 25 | 40-140|
--------------------------------------------------------------------------

  # - Fails Limit Check


            ARO1-25.M      Tue Feb 08 14:15:31 2011
```

RESULTS: VOLATILE PETROLEUM HYDROCARBONS

Results for VPH analysis are presented in the following section. Each page is electronically signed.

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-101
Method for Target Analytes:			Lab ID	W0204-23
VPH Surrogate Standards			Date Collected	2/4/11
PID: 2,5- Dibromotoluene			Date Received	2/4/11
FID: 2,5- Dibromotoluene			Date Analyzed	2/8/11
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				100
FID Surrogate % Recovery				82
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inqniry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-102
Method for Target Analytes:		Lab ID		W0204-23
VPH Surrogate Standards		Date Collected		2/4/11
PID: 2,5- Dibromotoluene		Date Received		2/4/11
FID: 2,5- Dibromotoluene		Date Analyzed		2/8/11
		Dilution Factor		1X
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				99
FID Surrogate % Recovery				84
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-103
Method for Target Analytes:			Lab ID	W0204-23
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	2/4/11
			Date Received	2/4/11
			Date Analyzed	2/8/11
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				102
FID Surrogate % Recovery				82
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______________________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-104
Method for Target Analytes:		Lab ID		W0204-23
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene		Date Collected		2/4/11
		Date Received		2/4/11
		Date Analyzed		2/8/11
		Dilution Factor		1X
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				100
FID Surrogate % Recovery				85
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

POSITION: Laboratory Director.

PRINTED NAME: Richard Warila

DATE: 2/10/2011

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	AE-106
Method for Target Analytes:			Lab ID	W0204-23
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene			Date Collected	2/4/11
			Date Received	2/4/11
			Date Analyzed	2/8/11
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				97
FID Surrogate % Recovery				81
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-107
Method for Target Analytes:	Lab ID	W0204-23
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene	Date Collected	2/4/11
	Date Received	2/4/11
	Date Analyzed	2/8/11
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				99
FID Surrogate % Recovery				81
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE: ______ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98		Client ID		AE-108
Method for Target Analytes:		Lab ID		W0204-23
VPH Surrogate Standards PID: 2,5- Dibromotoluene FID: 2,5- Dibromotoluene		Date Collected		2/4/11
		Date Received		2/4/11
		Date Analyzed		2/8/11
		Dilution Factor		1X
		% Moisture (soil)		NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				97
FID Surrogate % Recovery				82
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

SIGNATURE:

POSITION: Laboratory Director

PRINTED NAME: Richard Warila

DATE: 2/10/2011

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	X Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	X Received on Ice X Received at 4° C _Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98	Client ID	AE-109
Method for Target Analytes:	Lab ID	W0204-23
VPH Surrogate Standards	Date Collected	2/4/11
PID: 2,5- Dibromotoluene	Date Received	2/4/11
FID: 2,5- Dibromotoluene	Date Analyzed	2/8/11
	Dilution Factor	1X
	% Moisture (soil)	NA

Range/Target Analyte	Elution Range	RL	Units	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	880
Benzene	C5-C8	5.0	ug/L	<5.0
Ethylbenzene	C9-C12	5.0	ug/L	<5.0
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5.0	ug/L	<5.0
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	620
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	260
PID Surrogate % Recovery				95
FID Surrogate % Recovery				84
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

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SIGNATURE: POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

SAMPLE INFORMATION

Matrix	X Aqueous _ Soil _ Sediment _ Other:		
Containers	_ Satisfactory _ Broken _ Leaking:		
Sample Preservatives	Aqueous	_ N/A X pH≤2 _ pH>2 Comment:	
	Soil or Sediment	_ N/A _ Samples NOT preserved Methanol or air-tight container	mL Methanol/g soil
		_ Samples rec'd in Methanol: _ covering soil _ not covering soil	_ 1:1 +/- 25%
		_ Samples received in air-tight container:	_ Other:
Temperature	_ Received on Ice _ Received at 4° C _ Other:		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH 01/98			Client ID	Method Blank
Method for Target Analytes:			Lab ID	W0204-23
VPH Surrogate Standards			Date Collected	NA
PID: 2,5- Dibromotoluene			Date Received	NA
FID: 2,5- Dibromotoluene			Date Analyzed	2/8/11
			Dilution Factor	1X
			% Moisture (soil)	NA
Range/Target Analyte	**Elution Range**	**RL**	**Units**	
Unadjusted C5-C8 Aliphatics[1]	N/A	50	ug/L	<50
Unadjusted C9-C12 Aliphatics[1]	N/A	50	ug/L	<50
Benzene	C5-C8	5	ug/L	<5
Ethylbenzene	C9-C12	5	ug/L	<5
Methyl-tert-butylether	C5-C8	10	ug/L	<10
Naphthalene	N/A	10	ug/L	<10
Toluene	C5-C8	5	ug/L	<5
m- & p- Xylenes	C9-C12	10	ug/L	<10
o-Xylene	C9-C12	10	ug/L	<10
C5-C8 Aliphatic Hydrocarbons[1,2]	N/A	50	ug/L	<50
C9-C12 Aliphatic Hydrocarbons[1,3]	N/A	50	ug/L	<50
C9-C10 Aromatic Hydrocarbons[1]	N/A	50	ug/L	<50
PID Surrogate % Recovery				103
FID Surrogate % Recovery				85
Surrogate Acceptance Range				70-130%

[1] Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C_9-C_{12} Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons

CERTIFICATION

Were all QA/QC procedures REQUIRED by the VPH Method followed?	X Yes	_ No-Details Attached
Were all performance/acceptance standards for the required QA/QC procedures achieved?	X Yes	_ No-Details Attached
Were any significant modifications made to the VPH method, as specified in Section 11.3?	X No	_ Yes-Details Attached

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SIGNATURE: ______________________ POSITION: Laboratory Director

PRINTED NAME: Richard Warila DATE: 2/10/2011

```
           Spike Recovery and RPD Summary Report - WATER

Method        : C:\HPCHEM\1\METHODS\VPHQUANT.M (Chemstation Integrator)
Title         :
Last Update   : Wed Jan 19 08:29:42 2011
Response via  : Initial Calibration

Non-Spiked Sample:  D020805.D

           Spike                               Spike
           Sample                              Duplicate Sample
---------------------------------------------------------------------------
File ID :  D020802.D                          | D020803.D
Sample  :  LCS020811                          | LCSD020811
Acq Time:   8 Feb 2011   8:56 am              |  8 Feb 2011   9:37 am
---------------------------------------------------------------------------

Compound                 Sample Spike Spike  Dup  Spike  Dup  RPD    QC Limits
                          Conc  Added  Res   Res  %Rec  %Rec      RPD  % Rec
---------------------------------------------------------------------------
Pentane                 | 0.0 |  50 |  55 |  53 | 109 | 107 |  2 | 25 | 70-130|
2-Methyl pentane        | 0.0 |  50 |  49 |  48 |  97 |  95 |  2 | 25 | 70-130|
2,2,4-trimethylpenta| 0.0 |  50 |  52 |  50 | 104 | 100 |  4 | 25 | 70-130|
Nonane                  | 0.0 |  50 |  43 |  41 |  86 |  82 |  4 | 25 | 70-130|
n-decane                | 0.0 |  50 |  43 |  41 |  86 |  81 |  6 | 25 | 70-130|
n-butylcyclohexane      | 0.0 |  50 |  49 |  43 |  97 |  86 | 12 | 25 | 70-130|
MTBE #2                 | 0.0 |  50 |  58 |  57 | 117 | 113 |  3 | 25 | 70-130|
Benzene #2              | 0.0 |  50 |  59 |  59 | 117 | 118 |  0 | 25 | 70-130|
Toluene #2              | 0.0 |  50 |  40 |  40 |  80 |  80 |  0 | 25 | 70-130|
Ethylbenzene #2         | 0.0 |  50 |  44 |  44 |  88 |  87 |  1 | 25 | 70-130|
M&P Xylene #2           | 0.0 | 100 |  83 |  83 |  83 |  83 |  0 | 25 | 70-130|
O Xylene #2             | 0.0 |  50 |  45 |  45 |  90 |  90 |  1 | 25 | 70-130|
1,2,4-Trimethylbenze| 0.0 |  50 |  43 |  42 |  85 |  84 |  1 | 25 | 70-130|
Naphthlene              | 0.0 |  50 |  43 |  43 |  87 |  85 |  2 | 25 | 70-130|
---------------------------------------------------------------------------

  # - Fails Limit Check



           VPHQUANT.M     Thu Feb 10 09:40:55 2011
```

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue
North Providence, RI 02904
1-888-863-8522

CHAIN OF CUSTODY RECORD

W0204-23

PROJ. NO. 3120

PROJECT NAME/LOCATION 515 Somerville Ave, Som'l. MA

CLIENT Action Environmental

REPORT TO: ~~[illegible]~~ Robert Houghton

INVOICE TO: Andrew Clemans

DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS**: VPH	EPH	REMARKS
2/4/11	11:40		X	AE-101	X			3	HCl	X	X	
2/4/11	12:[illegible]		X	AE-102	X			3		X	X	
2/4/11	12:30		X	AE-103	X			3		X	X	
2/4/11	8:40		X	AE-104	X			3		X	X	
~~[illegible]~~				~~[illegible]~~								
2/4/11	9:20		X	AE-106	X			3		X	X	
2/4/11	9:45		X	AE-107	X			3		X	X	
2/4/11	10:10		X	AE-108	X			3		X	X	
2/4/11	10:45		X	AE-109	X			3		X	X	

Sampled by: (Signature)	Date/Time 2/4/11 2:00	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time 2/4/11 2:50	Received by: (Signature) Robert Lee	Date/Time 2/4/11 2:50
Relinquished by: (Signature) Robert Lee	Date/Time 2/4/11 4:35	Received for Laboratory by: (Signature)	Date/Time 2/4/11 16:35

Laboratory Remarks:
Temp. received: 4°
Cooled R

Special Instructions:
List Specific Detection
Limit Requirements:
MCP GW2-3

Turnaround (Business Days) 5 bus Days

**Netlab Subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

APPENDIX D

GEOPHYSICAL SURVEY

RSI Geophysics for the 21st Century
Radar Solutions International™

March 23, 2010

Mr. Robert Houghton
Action Environmental
184 Riverview Ave, 2nd Floor
Waltham, MA 02453

Re: UST Detection Survey
515 Somerville Ave.
Somerville, Massachusetts

Dear Bob:

In accordance with your authorization, Radar Solutions International (RSI) conducted ground penetrating radar (GPR), electromagnetic (EM-61) induction and magnetic surveys at the above-referenced site on Tuesday, March 2, 2010 and Friday, March 5, 2010. RSI's Geophysicist, Ms. Melanie Denham and Geophysical Technician, Ms. Katie Dowty conducted the geophysical surveys. The purpose of the investigation was to locate possible underground storage tanks within the survey limit defined by the property boundary as shown in a plan map supplied by Action Environmental. RSI's finalized survey results and interpretations are summarized below.

LOCATION AND SURVEY CONTROL

The site is located at 515 Somerville Ave in Somerville, Massachusetts. The actual survey area was irregularly shaped, due to an irregular shaped property boundary and limited access to the outer limits, but its maximum extent was approximately 270 feet by 250 feet in size. Survey lines were extended to included as much of the area as possible within this 270 by 250 foot area, but could not include parts of the site that were inaccessible.

RSI personnel established a geophysical survey grid using fiberglass taped measurements and referenced baseline 270N to the northern most wall of an existing and abandoned building. Line 90E is coincident with the eastern portion of the wall where it intersects with line 270N. This baseline of 90E was extended the southern limit where it ended at a dirt and debris pile near 40N. The pile was inaccessible to survey and encompassed and area between 0N to 50N and from 40E to 100E. RSI's geophysical lines were oriented parallel and perpendicular to these existing building walls.

Along with the previous mentioned dirt pile, there were other obstacles and areas that were inaccessible for either one or more of the geophysical methods used. Previous UST removal took place in the area from 50E to 80E and 120N to 160N and also from 110E to 150E and 20N to 40N. There was limited GPR coverage in these areas as the terrain made it nearly impossible to keep the antenna coupled to the ground. Two large metal dumpsters were

located on site and may influence the EM-61 data. One was referenced from grid node (185E, 35N) to (175E, 60N). The second was from grid node (30E, 115N) to (42.5E, 140N). Just west of the first dumpster was a second pile of dirt and debris, located from 160E to 175E and from 35N to 55N. Covering the ground from 60N to 90N and from 225E to 250E were stacks of scrap metal and fence pieces. A small building/ shed was located from 75N to 95N and from around 245E to the fence along line 255E. Near and around grid node 170N, 100E multiple 55 gallon drums were present above ground.

A concrete slab/ foundation covered the site from 200N to 270N and 35E to 90E. This reinforced concrete was surveyed using GPR only, due to the presence of rebar. Just south of the slab was an area that had been excavated due to the presence of asbestos in the tiling. This area was not surveyed using GPR as the terrain condition was too rough, and a tarp that was covering the region had pools of water on top. EM-61 and mag were used here.

A metal chain-link fence bordered the property boundary along the north, east and south edges. In some places, due to brush and other remains, RSI was not able to access all the way to the fence. An access road/ driveway is located in westernmost portion of the site.

RSI's reference to other existing features such as monitoring wells and drain covers can been seen in the attached figures, along with the survey limits.

EM-61 lines were oriented east-west and were spaced every 2.5 feet apart. RSI collected 5 EM data points every second for total coverage of the area of investigation. GPR lines of coverage were obtained along EM-61 and along orthogonal lines spaced 5 feet apart. The location of GPR traverses and our interpreted results have been plotted on Figure 3. Figure 4 presents combined EM-61 and GPR results. Mag data was collected where the site was free from aboveground metal along lines oriented east-west. Contoured Mag results are seen on Figure 5.

METHODOLOGY

RSI used multiple geophysical techniques to best meet the objectives of Action Environmental and its client. RSI first used a GEONICS EM-61 time-domain electromagnetic instrument to detect buried metal.

This technology measures the strength of the electromagnetic field, measured in millivolts, induced within buried metal objects after the primary electromagnetic pulse has been switched off. High induced voltages indicate the presence of above or below ground metal. Induced measurements are recorded at two coils located at different heights. In the absence of any metal, the differential (i.e. the value at the top coil minus the value at the bottom coil) is zero. Positive, high-amplitude differential readings indicate that metal is likely to be present below grade. Measurements are obtained at four discrete "time-gates", after the transmitted pulse has been switched off. The larger the induced response, especially at the later time-gates, the larger metal objects.

EM-61 data were collected along lines using a line spacing of 2.5 feet. At the office, EM-61 data were transferred to a computer and contoured (i.e. data with similar values were shaded similarly to bring out patterns of high and low values). Appendix A describes the EM-61 method and its limitations in more detail.

GPR data were acquired using the GSSI SIR 3000 digital radar system with a 400 MHz antenna. The radar antenna propagates high frequency radio and microwave energy into the ground, where this energy is reflected back to the antenna by materials of differing electrical (i.e. dielectric and conductivity), and to a lesser extent, physical properties. Generally, the more conductive the soil/material and/or groundwater, the less the GPR signal penetration and resolution there is. GPR provides a pseudo cross-section wherever the antenna was moved. Possible USTs, if present, would show up as large, hyperbolic reflectors when the antenna was moved across their short axis. (The same UST would produce a flat or slightly dipping reflector when the antenna was moved parallel to the UST's long axis. GPR records would also give an indication of their approximate depth.

RSI also used a Geometrics 858 total field cesium walking magnetometer to help map iron and steel targets. The magnetic method works on the principle that ferrous (iron-steel) objects cause localized disturbances ("anomalies") in the earth's total magnetic field that are measurable with the magnetometer. Iron or steel objects may be detected to depths as great as 25 feet, depending upon the magnetic mass of the target(s) in question and the type of magnetometer used. The greater mass, the larger the disturbance recorded in the earth's field. A single metal drum buried about 4 feet below grade may produce an anomaly of 60 to 200 gammas. A single 10,000 gallon UST can produce an anomaly in the order of several thousand gammas.

RESULTS

GPR signal penetrated a maximum of 8 feet at the site, although more typically, penetration was only about 6 feet. In some areas, penetration was limited to about 4 feet, especially beneath the former building slab where there was reinforcing present. The fill appears to typically have multiple targets characteristic of "urban fill". Figures 1 and 2 summarize our EM-61 results from the differential response and third time gate. Figure 3 shows interpreted GPR data from the visual inspection of data using RADAN©, while Figure 4 shows contoured magnetic data. Figure 5 shows a combination of the EM-61 differential and GPR results. All results are presented in a scale of 1 inch equals 30 feet. Key results are presented below:

- EM-61 time gate 3 and differential results (Figures 1 and 2) shows one strong EM anomaly centered near 65E and 90N. The amplitude and shape of this anomaly suggest a larger metal target, possibly a small UST. Magnetic data (Figure 4) shows a magnetic low and magnetic high to the south of the metal target, confirming that it is iron or steel in composition. There is another magnetic low immediately south of this target. GPR data (Figure 3) indicate that there is a moderately large tank-like target coincident with the EM and magnetic anomalies. This target was observed at a depth of approximately 1 to 1.5 feet below grade, and may correspond to a small waste oil tank, oil water separator, or possibly a septic tank. GPR also indicates that there is a pipe trending to

the south, parallel to 63E to 64E toward an area previously excavated by Action Environmental.

- Numerous other GPR reflectors, both large and small targets, were observed throughout the site (Figure 3). Most do not have a corresponding EM or magnetic anomaly, suggesting that they are mostly comprised of non-metallic materials, such as concrete, brick, boulders, etc. Some may be attributed to pipes, the inferred trend of which has been plotted on Figures 3 and 5.

- Both EM-61 and magnetic data show a diffuse, large area in which above-background induced voltages and magnetic values were observed. GPR shows numerous small targets, but not any one target could account for the high EM and magnetic values observed there.

SUMMARY AND RECOMMENDATIONS

One small UST may possibly be present within the area of investigation near 64E and 90N. The target is small, but is comprised of metal, as indicated by both the EM and Magnetic data. The top of the target is only approximately 1 to 1.5 feet below grade. It is possible that this target represents a small waste oil tank, oil-water separator, or septic tank. A pipe appears to trend due south from it into an area that was previously excavated and USTs removed.

Because the nature of geophysics is interpretive, based on sometimes subjective interpretation and limitations of the data, RSI recommends that confirmatory test pits be performed at the following location:

1. 64E, 90N: possible small UST, probable metal target 1 to 1.5 feet below grade.

Action Environmental may opt for additional test pits in areas in which buried metal is indicated by both EM and magnetic data.

***

We appreciate this opportunity to work with Action Environmental. Please call should you have any inquiries regarding this or future assignments.

Sincerely,
RADAR SOLUTIONS INTERNATIONAL

Doria L Kutrubes

Doria Kutrubes, M.Sc., P.G.
President and Senior Geophysicist

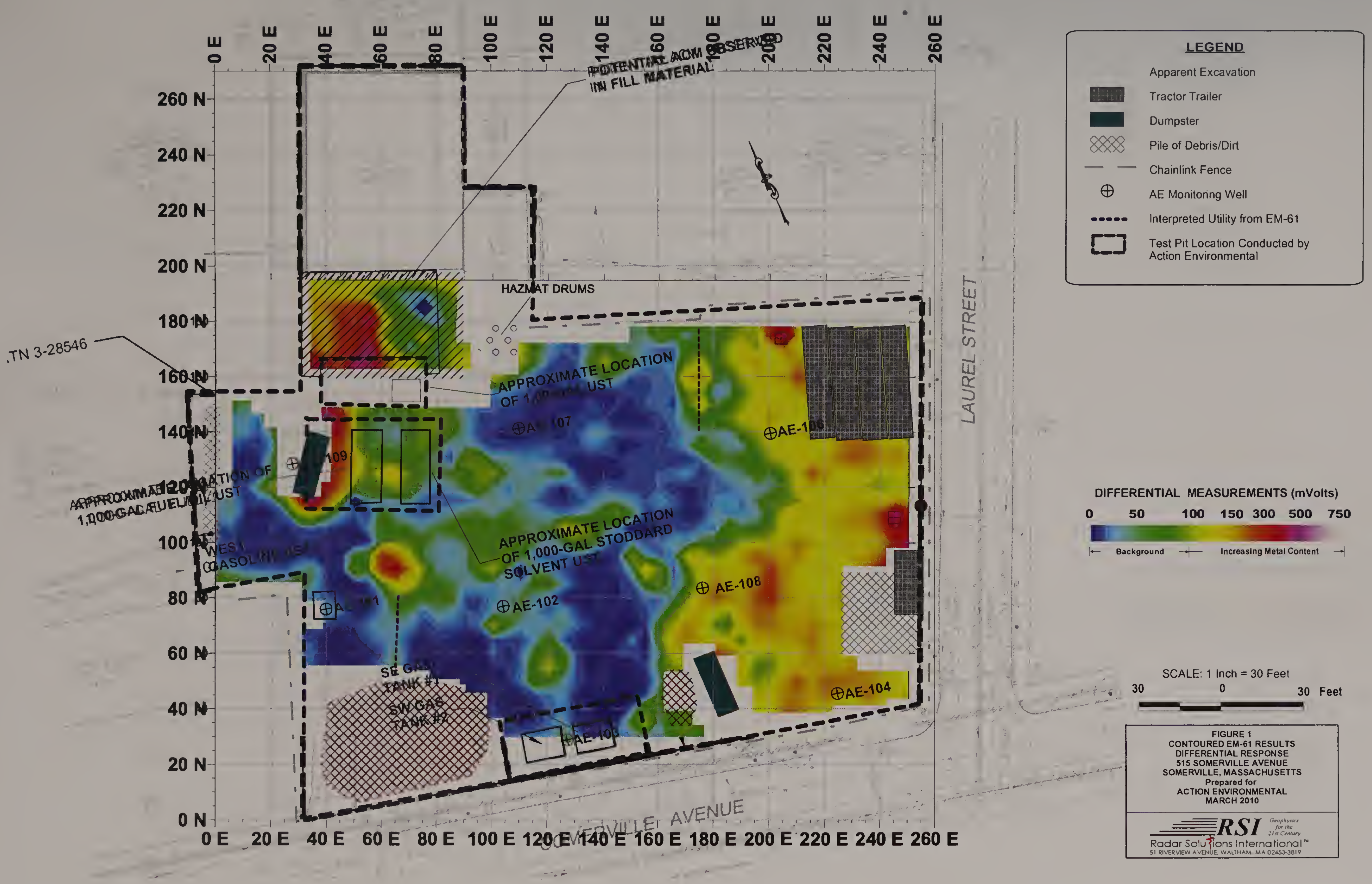

FIGURE 1
CONTOURED EM-61 RESULTS
DIFFERENTIAL RESPONSE
515 SOMERVILLE AVENUE
SOMERVILLE, MASSACHUSETTS
Prepared for
ACTION ENVIRONMENTAL
MARCH 2010

RSI Geophysics for the 21st Century
Radar Solutions International™
51 RIVERVIEW AVENUE, WALTHAM, MA 02453-3819

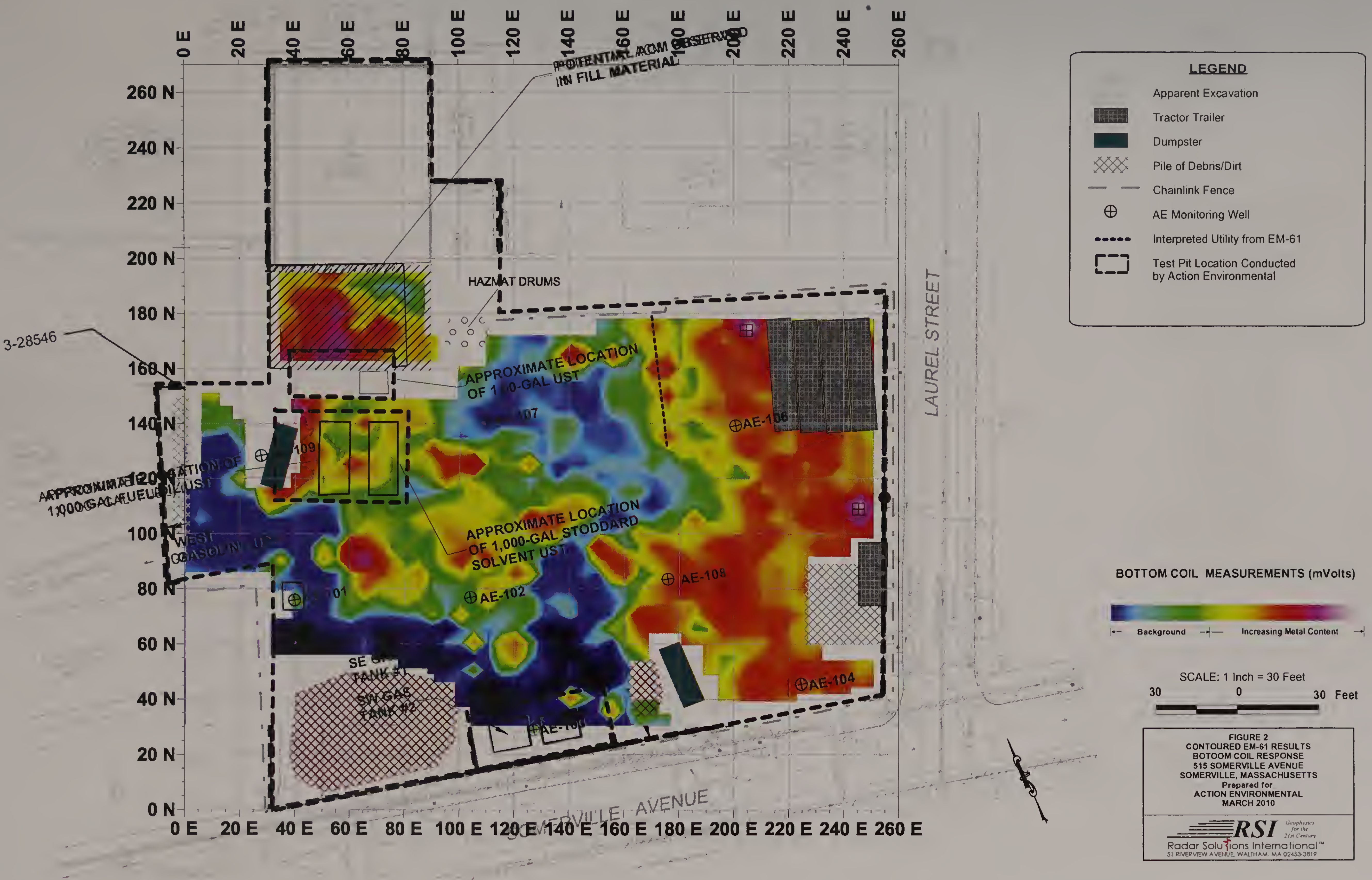

FIGURE 2
CONTOURED EM-61 RESULTS
BOTOOM COIL RESPONSE
515 SOMERVILLE AVENUE
SOMERVILLE, MASSACHUSETTS
Prepared for
ACTION ENVIRONMENTAL
MARCH 2010

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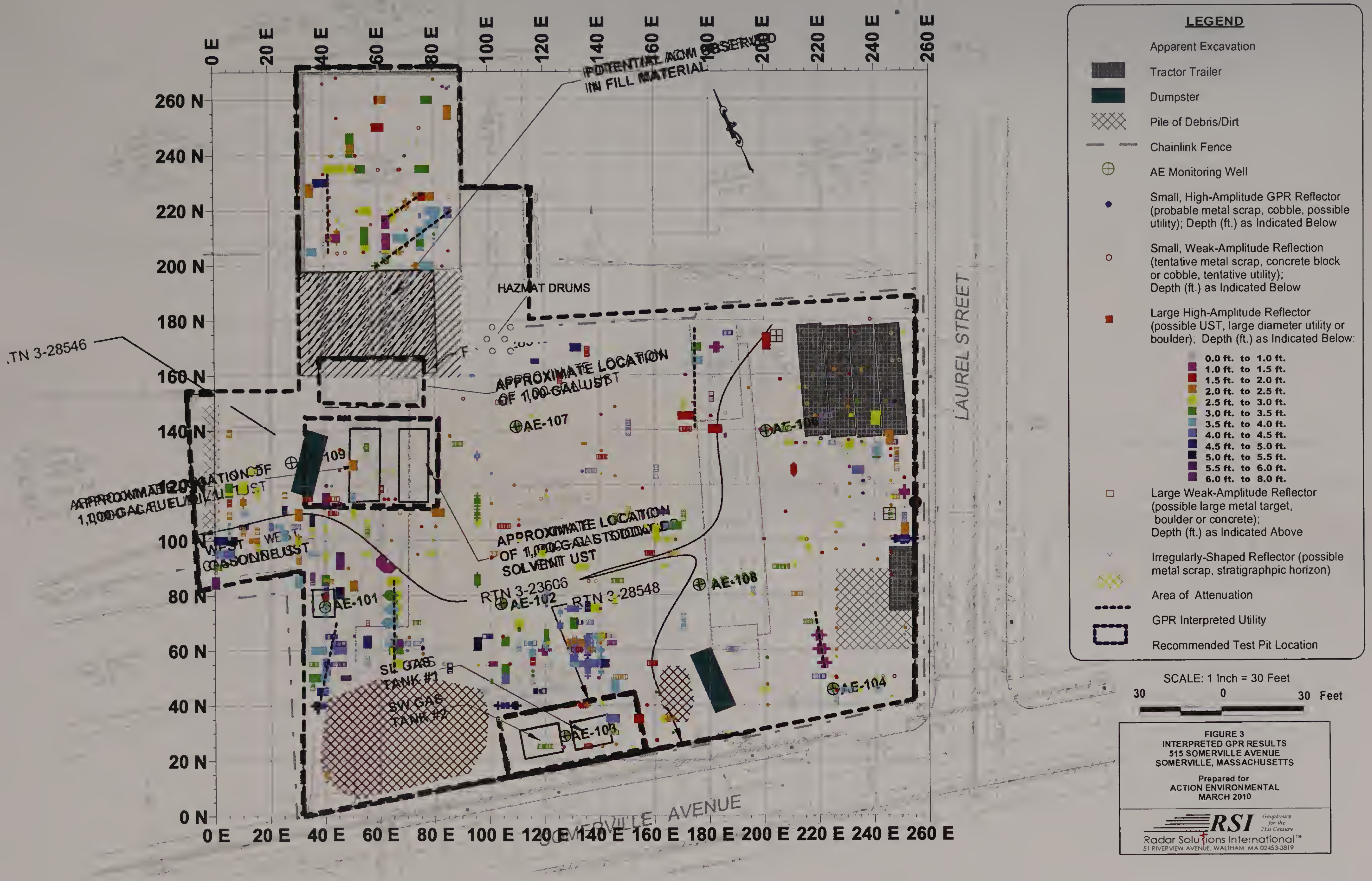
LEGEND
Apparent Excavation
Tractor Trailer
Dumpster
Pile of Debris/Dirt
Chainlink Fence
AE Monitoring Well
Small, High-Amplitude GPR Reflector (probable metal scrap, cobble, possible utility); Depth (ft.) as Indicated Below
Small, Weak-Amplitude Reflection (tentative metal scrap, concrete block or cobble, tentative utility); Depth (ft.) as Indicated Below
Large High-Amplitude Reflector (possible UST, large diameter utility or boulder); Depth (ft.) as Indicated Below:
0.0 ft. to 1.0 ft.
1.0 ft. to 1.5 ft.
1.5 ft. to 2.0 ft.
2.0 ft. to 2.5 ft.
2.5 ft. to 3.0 ft.
3.0 ft. to 3.5 ft.
3.5 ft. to 4.0 ft.
4.0 ft. to 4.5 ft.
4.5 ft. to 5.0 ft.
5.0 ft. to 5.5 ft.
5.5 ft. to 6.0 ft.
6.0 ft. to 8.0 ft.
Large Weak-Amplitude Reflector (possible large metal target, boulder or concrete); Depth (ft.) as Indicated Above
Irregularly-Shaped Reflector (possible metal scrap, stratigraphpic horizon)
Area of Attenuation
GPR Interpreted Utility
Recommended Test Pit Location
SCALE: 1 Inch = 30 Feet
30
0
30 Feet
0 E
20 E
40 E
60 E
80 E
100 E
120 E
140 E
160 E
180 E
200 E
220 E
240 E
260 E
260 N
240 N
220 N
200 N
180 N
160 N
140 N
120 N
100 N
80 N
60 N
40 N
20 N
0 N
POTENTIAL ACM OBSERVED IN FILL MATERIAL
HAZMAT DRUMS
APPROXIMATE LOCATION OF 1,000-GAL UST
AE-107
AE-106
AE-108
AE-101
AE-102
AE-103
AE-104
109
APPROXIMATE LOCATION OF 1,000-GAL FUEL OIL UST
WEST GASOLINE UST
APPROXIMATE LOCATION OF 1,000-GAL STODDARD SOLVENT UST
RTN 3-23606
RTN 3-28548
RTN 3-28546
SE GAS TANK #1
SW GAS TANK #2
LAUREL STREET
SOMERVILLE AVENUE

FIGURE 3
INTERPRETED GPR RESULTS
515 SOMERVILLE AVENUE
SOMERVILLE, MASSACHUSETTS

Prepared for
ACTION ENVIRONMENTAL
MARCH 2010

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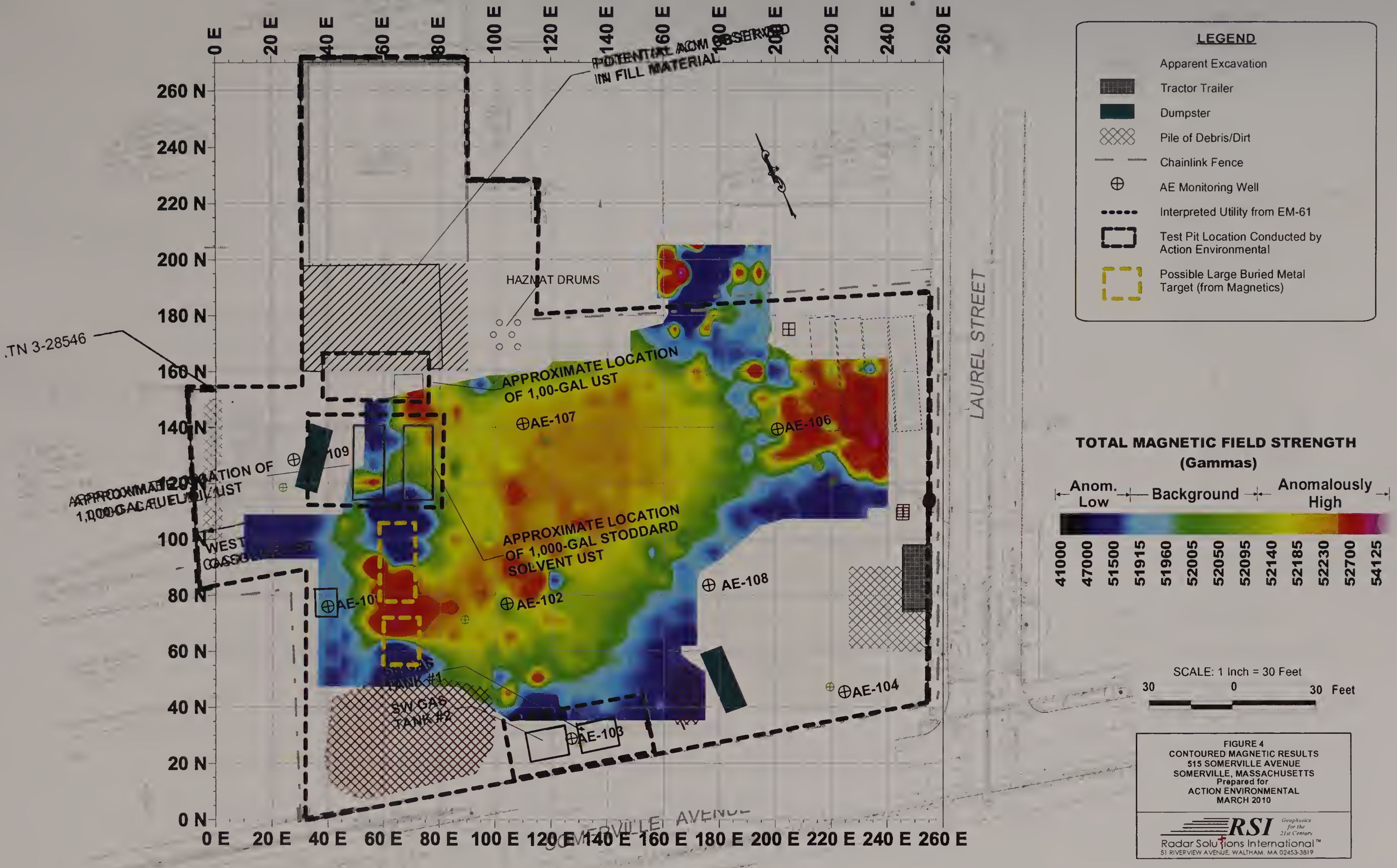

FIGURE 4
CONTOURED MAGNETIC RESULTS
515 SOMERVILLE AVENUE
SOMERVILLE, MASSACHUSETTS
Prepared for
ACTION ENVIRONMENTAL
MARCH 2010

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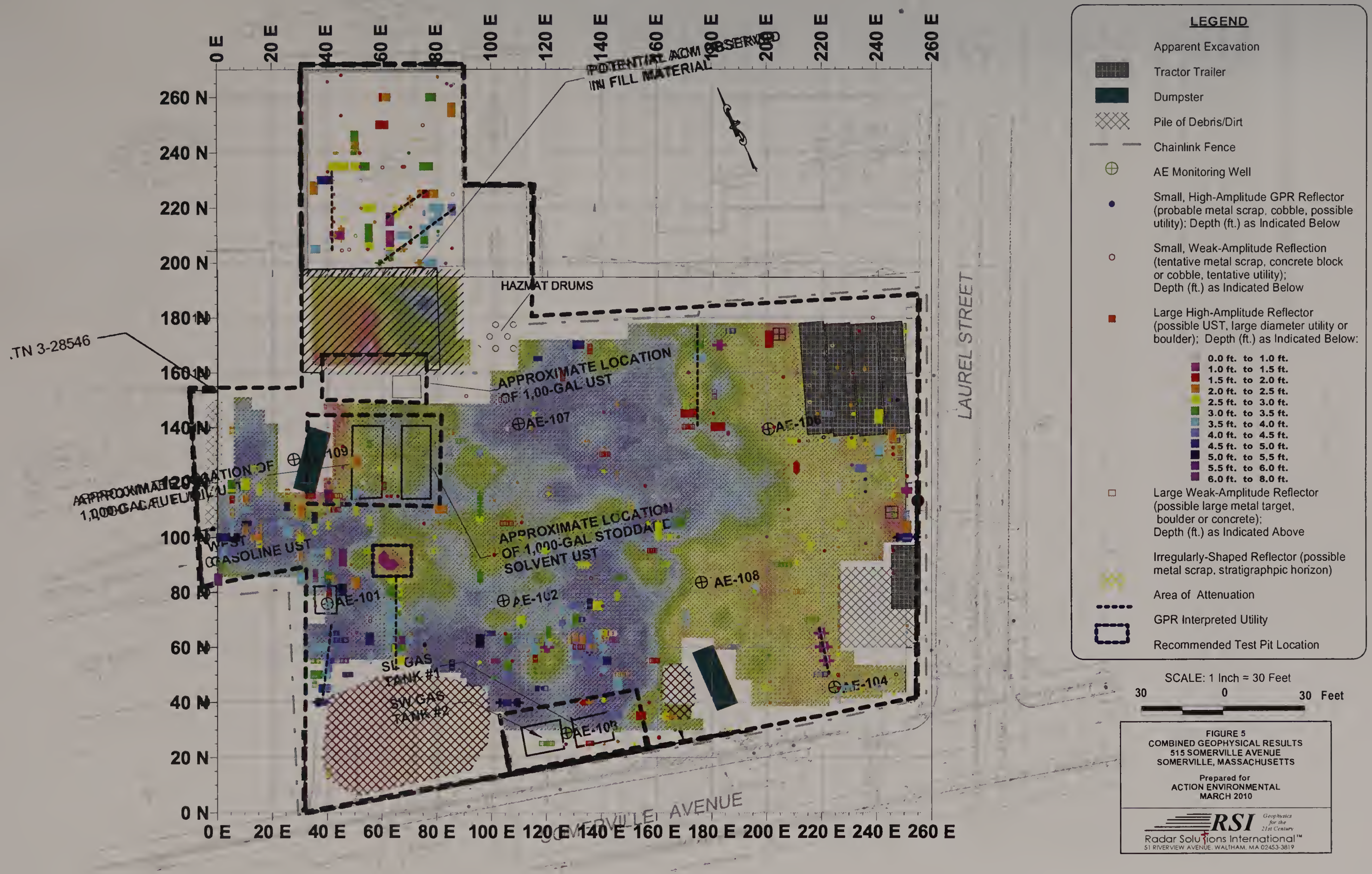

LEGEND
Apparent Excavation
Tractor Trailer
Dumpster
Pile of Debris/Dirt
Chainlink Fence
AE Monitoring Well
Small, High-Amplitude GPR Reflector (probable metal scrap, cobble, possible utility); Depth (ft.) as Indicated Below
Small, Weak-Amplitude Reflection (tentative metal scrap, concrete block or cobble, tentative utility); Depth (ft.) as Indicated Below
Large High-Amplitude Reflector (possible UST, large diameter utility or boulder); Depth (ft.) as Indicated Below:
0.0 ft. to 1.0 ft.
1.0 ft. to 1.5 ft.
1.5 ft. to 2.0 ft.
2.0 ft. to 2.5 ft.
2.5 ft. to 3.0 ft.
3.0 ft. to 3.5 ft.
3.5 ft. to 4.0 ft.
4.0 ft. to 4.5 ft.
4.5 ft. to 5.0 ft.
5.0 ft. to 5.5 ft.
5.5 ft. to 6.0 ft.
6.0 ft. to 8.0 ft.
Large Weak-Amplitude Reflector (possible large metal target, boulder or concrete); Depth (ft.) as Indicated Above
Irregularly-Shaped Reflector (possible metal scrap, stratigraphpic horizon)
Area of Attenuation
GPR Interpreted Utility
Recommended Test Pit Location
SCALE: 1 Inch = 30 Feet
30
0
30 Feet
0 E
20 E
40 E
60 E
80 E
100 E
120 E
140 E
160 E
180 E
200 E
220 E
240 E
260 E
260 N
240 N
220 N
200 N
180 N
160 N
140 N
120 N
100 N
80 N
60 N
40 N
20 N
0 N
POTENTIAL ACM OBSERVED IN FILL MATERIAL
HAZMAT DRUMS
TN 3-28546
APPROXIMATE LOCATION OF 1,00-GAL UST
AE-107
AE-106
AE-109
APPROXIMATE LOCATION OF 1,000-GAL FUEL OIL UST
APPROXIMATE LOCATION OF 1,000-GAL STODDARD SOLVENT UST
W UST GASOLINE UST
AE-108
AE-101
AE-102
SE GAS TANK #1
SW GAS TANK #2
AE-103
AE-104
LAUREL STREET
SOMERVILLE AVENUE

FIGURE 5
COMBINED GEOPHYSICAL RESULTS
515 SOMERVILLE AVENUE
SOMERVILLE, MASSACHUSETTS

Prepared for
ACTION ENVIRONMENTAL
MARCH 2010

RSI Geophysics for the 21st Century
Radar Solutions International™
51 RIVERVIEW AVENUE, WALTHAM, MA 02453-3819

APPENDIX A

EM-61 METHOD OF INVESTIGATION

Manufactured by Geonics, Inc., the EM-61 is a time-domain electromagnetic instrument developed to find unexploded ordinances (UXOs) and other buried metal targets in environments where there may be a lot of interference from surface metal and overhead power lines. According to tests conducted by the manufacturer and reports from other geophysical service providers, the EM-61 is has a sensitivity sufficient to detect metal objects as small as a few centimeters.

The EM-61 operates on the principle that the time-decay rate (i.e. transient pulse) of a signal induced in metal decays proportionally to the mass of the metal object. The EM-61 works by generating an EM signal of known frequency and voltage at the transmitter, located in the backpack configuration. In the presence of metal objects, an EM signal is induced when the transmitted signal is applied. When the transmitter is switched off, the induced field decays at a rate specific to the metal mass in which it is induced. The EM-61 top and bottom receiver coils measure the decay voltage at four specific times (i.e. “time gates”) after the transmit pulse has been shut off. The amplitude of the voltage after the transmit pulse has been shut off is proportional to the size of the metal object: the larger the voltage (as measured in millivolts) at the time of the measurement, the larger the metal object. High residual voltages, especially at the later time-gates, indicate large metal objects. Negative voltages can also indicate both above-ground and buried metal.

The EM-61 operates by pulling or pushing the instrumentation along survey lines that were spaced 1 meter apart for this survey. Data can be collected using an encoder or “DMI” - distance measurement instrument, which is built into the EM-61's left wheel, or manually. The station spacing varies, depending upon the application. For this survey, data were collected using the DMI with a station spacing of 0.2 meters. Additionally, manual marks were added at a spacing of 2 meters for subsequent “rubber sheeting” of the data.

Four different data sets are generated from the two measurements made at top and bottom receiver coils: bottom, top, differential, and noise. Data obtained from the bottom receiver coil is considered to be most representative of buried and above-ground metal. Information from the top receiver coil is used with bottom coil measurements to calculate the differential data, which result from subtracting top coil measurements from bottom. Differential measurements help determine whether the source is from the above or below ground sources. Differential data are used to can also minimize the response from at or very near surface (i.e. 1 cm deep or less) metal. Positive voltages in the differential contour map shown in red, magenta, and pink, indicate buried metal. Blue or black filled contours indicate above-ground sources of metal. The “noise” calculations represent the bottom coil data that has been filtered to reduce the noise from spurious EM interference from overhead power lines, etc.

SURVEY LIMITATIONS

While differential and noise measurements help reduce EM noise from adjacent power lines, cell phone and radio towers, etc., the may not eliminate them completely. Therefore, in urban environments, data may appear noisy and not have a lot of continuity.

For maximum sensitivity, the EM-61 meter should be calibrated in an area free of buried metal and overhead power lines. Because the survey area had significant sources of cultural noise, the EM-61 instrument was not calibrated on site.

APPENDIX B

GROUND PENETRATING RADAR METHOD OF INVESTIGATION

A GSSI SIR 3000 radar system with a 500 megahertz (MHZ) antenna was used for the survey. GPR data were collected continuously along survey lines and displayed on a monitor. GPR data were also simultaneously recorded on a hard drive for post-survey processing. The horizontal scale on each GPR record is determined by the antenna speed. Survey stations are recorded on GPR records by pressing a marker button as the antenna's centerline passes each grid node (at 5 foot intervals for this survey). The vertical scale of these radar "cross-sections" is determined by the recording interval, which was 60 nanoseconds (ns). The recording interval represents the maximum two-way travel time in which data are recorded. This recording interval was selected to be greater than the anticipated maximum two-way travel time during which real GPR reflections might be observed. GPR travel times were converted to depths using an approximate dielectric constant determined from typical soil propagation velocities from similar sites.

The GPR method operates by transmitting low-powered microwave energy into the ground. The GPR signal is reflected back to the antenna by materials with contrasting electric (dielectric and conductive) and physical properties. Metal objects, such as USTs and pipes typically produce high-amplitude hyperbolic reflections on the GPR records. Sometimes concrete blocks, bricks, and cobbles cause similar signatures on the radar record.

SURVEY LIMITATIONS

GPR signals propagate well in sand and gravel. Conditions such as clay, ash, road salt, and fill saturated with brackish or otherwise conductive groundwater cause GPR signal attenuation and loss of target resolution (i.e. limited detection of small objects). Typically, when background conductivity measurements exceed 30 millimhos per meter (mmhos/m), GPR signal penetration is limited to 3 to 5 feet. Reinforced concrete also limits GPR penetration and resolution. Signal penetration through reinforced concrete is quite variable, ranging from approximately 1 to 5 feet depending upon the type and spacing of metal reinforcing.

GPR is an interpretive method, based on the subjective identification of reflection patterns which may not uniquely identify a subsurface target or stratigraphic horizon. For instance, the hyperbolic reflector corresponding to a utility is similar in reflection and depth characteristics to that produced by a metal scrap or cobble. Obtaining data along multiple survey traverses helps to determine the size, shape, and continuity of buried objects. For instance, buried utilities are interpreted from hyperbolic reflectors of similar depth and appearance, which are aligned along adjacent lines. Reflections from USTs are asymmetric: reflectors appear flat and of finite dimensions when the antenna moves parallel to the UST's long axis, but appear as large hyperbolic reflectors when the antenna crosses obliquely or perpendicular to the short axis of the UST. In both instances, UST reflectors are of finite length. GPR data interpretation is more subjective than that for most other geophysical methods, and confirmation using boreholes or test pits is strongly recommended.

Changes in the speed at which the antenna is moved between stations causes slight errors in horizontal distance interpolations and hence interpreted object positions.

The antenna radiation pattern is cone-shaped, emanating GPR signals approximately 15 degrees from horizontal fore and aft, and about 45 degrees from horizontal along the sides of the antenna, depending upon the dielectric properties of the soil. Therefore, buried objects may be detected before the antenna is located directly over them. Due to this effect, GPR anomalies often appear larger than actual target dimensions.

ACTION ENVIRONMENTAL 184 Riverview Ave. Phone: 781-893-9922 Waltham, MA 02453 Fax: 781-893-6622 **Environmental Consultants & Engineers**	PROJECT NO.: 3120 LOCATION: 515Somerville Ave. Somerville, MA Test Pit to evaluate magnetic anomaly 36' east of West Fence, 76' North of South Fence	SHEET 1 of 1 DATE 3-24-10 BORING NO.: Test Pit-1

		CASING	SAMPLER	GROUNDWATER		
Pit Location: 36 feet east of fence post at west entrance to Property	TYPE	Steel Corer	2 ft plastic sleeve	DATE	DEPTH (Feet)	STABIL. TIME
Scientist: Raymond Harpin	SIZE I.D.			3-24-10	0.5	15 min.
Equipment: Metal Detector, Shovel, and Slam bar	WEIGHT/FALL					

DEPTH (Feet)	SAMPLE Recovery/Depth	BLOWS Per 6"	STRATA CHANGE	SOIL/ROCK STRATIGRAPHY[1]	COMMENTS	FIELD TEST[2]	SAMPLE NO.
0				Brown, F- C Sand, cobble-size pieces of concrete and asphalt			
1			10"	Approx 2'X2' Steel Drain Grate with 2" openings, approx 2 " thick (source of magnetic anomaly)	Water cam up into test pit from Drain Grate when Grate was exposed. Water level settled at approx. 5 " below surface grade. Below Grate, encountered approximately three feet of water above sand. Bottom of Drain not encountered to maximum slam bar probe depth of 3.5 feet below top of Drain Grate.		
2				Below Grate, no resistance to Slam Bar, probable open space in Drain Box			
3							
4			4'				
5				Probable Sand End of Exploration = 4 Feet			
6							
7							
8							
9							
10							
11							

[1] Soil Strata Identification: Evaluated according to Burmister Classification System.

APPENDIX E

LABORATORY REPORT FOR COAL/ASH CHARACTERIZATION

MICROVISION
LABORATORIES, INC.

2/25/2010

Action Environmental
184 Riverview Ave.
1st Floor
Waltham, MA 02453
Attn: Robert Houghton

Project#: 3120
Project Name: World 115 Nominee Trust
Job #: 3227

Dear Robert:

This report covers the methods and findings of the Coal/Coal Ash analysis that MicroVision Laboratories, Inc. conducted on the two (2) soil samples from your project# 3120, which you submitted for this testing. The purpose of this analysis was to detect and document any coal, coal ash or wood ash that may be present in the submitted soil samples by use of a combination of microscopy tests including SEM/EDS, PLM, and macroscopic inspection.

Methods:

The samples were dried and examined by eye and under the stereomicroscope for any suspect dark components to the soil. Dark suspect particles were separated from the soil samples and prepared for examination by Polarized Light Microscopy (PLM) and Scanning Electron Microscopy with Energy Dispersive X-Ray Spectroscopy (SEM/EDS).

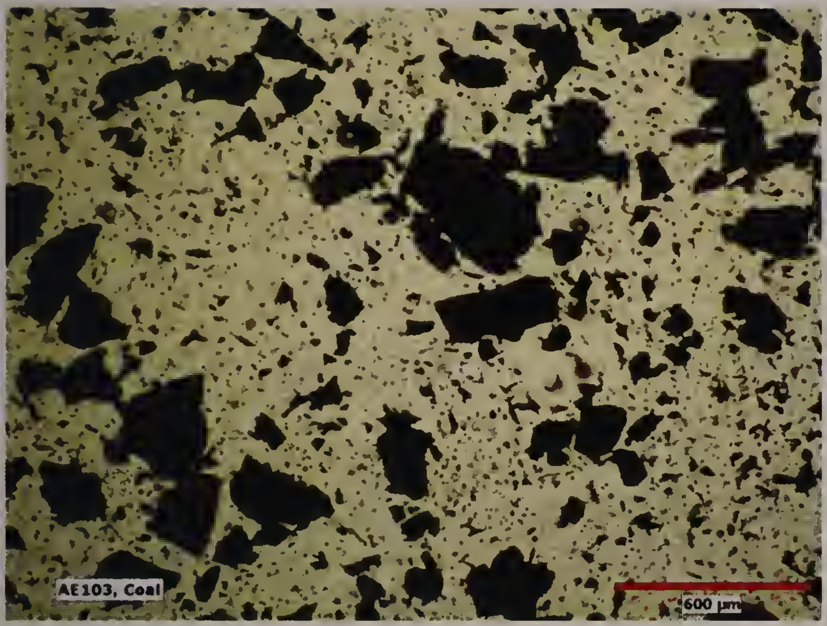
For the PLM examination the suspect particle types detected in the samples, were ground in a mortar and pestle, mounted on glass slides in immersion oil (n=1.515) and covered with glass cover slips. These samples were then examined at various magnifications and digital images were taken.

For the SEM examination the suspect particle types were mounted on an aluminum analysis stub with double sided adhesive tape, coated with evaporated graphite and examined under the SEM by EDS to obtain elemental data in the form of EDS spectra. Digital images were taken of the samples at various magnifications with the SEM.

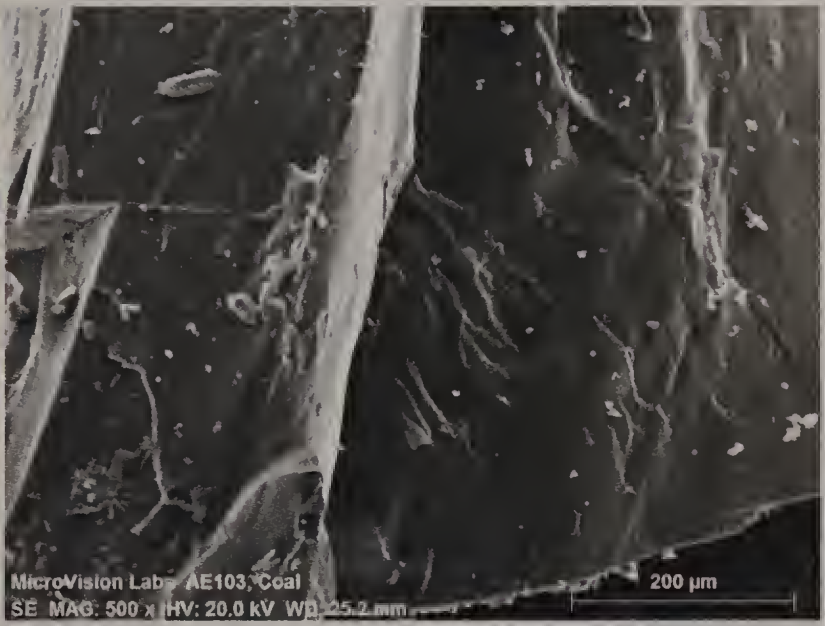
Findings:

Sample AE103 Urban Fill

The soil in this sample was a yellow-brown color and contained two (2) suspect particle types. Particle type 1 consisted of eighteen (18) shiny, black grains approximately 1mm-4mm in diameter. The PLM examination indicated this particle type to be consistent with coal. The PLM and SEM images of this particle type show the angular edges and typical conchoidal fractures found in coal.



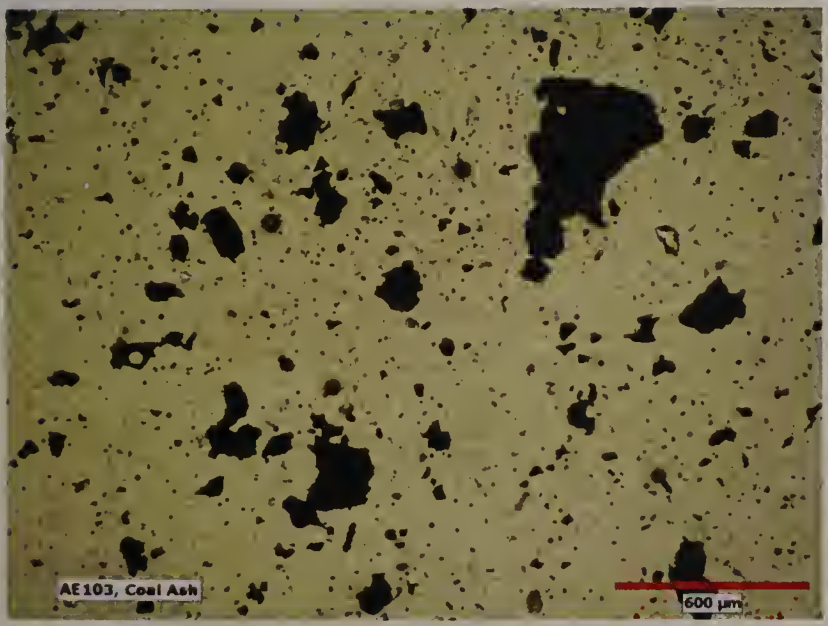
Sample: AE103 Urban Fill, Coal
PLM Image


MicroVision Labs AE103, Coal
SE MAG: 500 x HV: 20.0 kV WD: 25.2 mm
200 µm

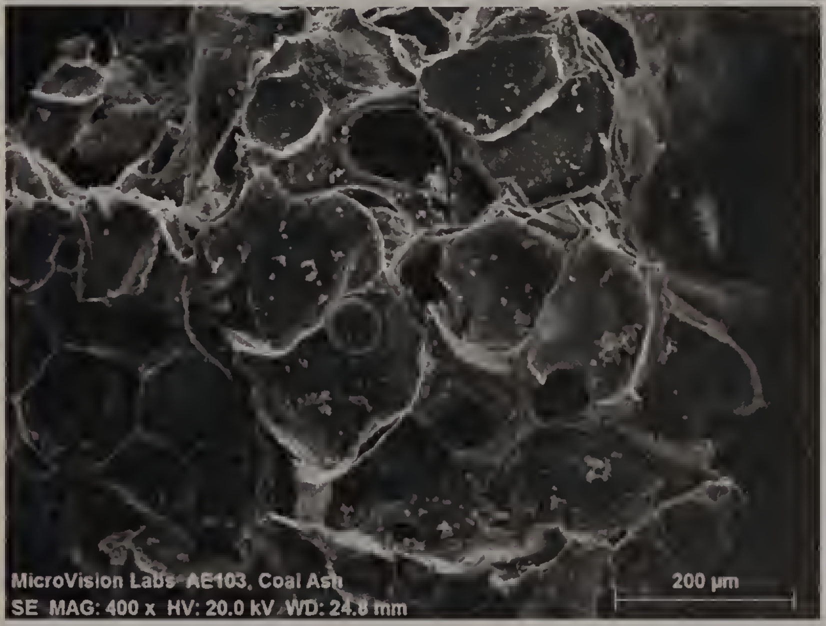
Sample: AE103 Urban Fill, Coal
SEM Image

The EDS analysis confirmed that this particle type is coal. The EDS spectrum for this particle shows a strong peak concentration of carbon, with lower peak concentrations of oxygen, and sulfur. See Appendix A for the average composition EDS spectra of this particle type.

Particle type 2 consisted of over thirty (30+) dark porous grains approximately 2mm-5mm in diameter. The PLM examination indicated this particle type to be consistent with coal ash. The PLM and SEM images show the irregular surface with spherical gas voids that formed during combustion of the coal ash.



Sample: AE103 Urban Fill, Coal Ash
PLM Image

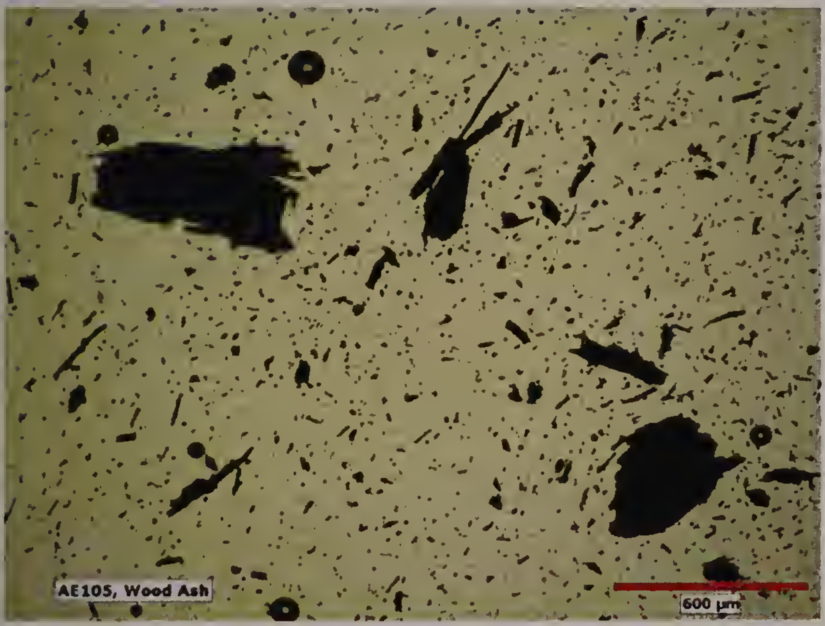

MicroVision Labs AE103, Coal Ash
SE MAG: 400 x HV: 20.0 kV WD: 24.8 mm
200 µm

Sample: AE103 Urban Fill, Coal Ash
SEM Image

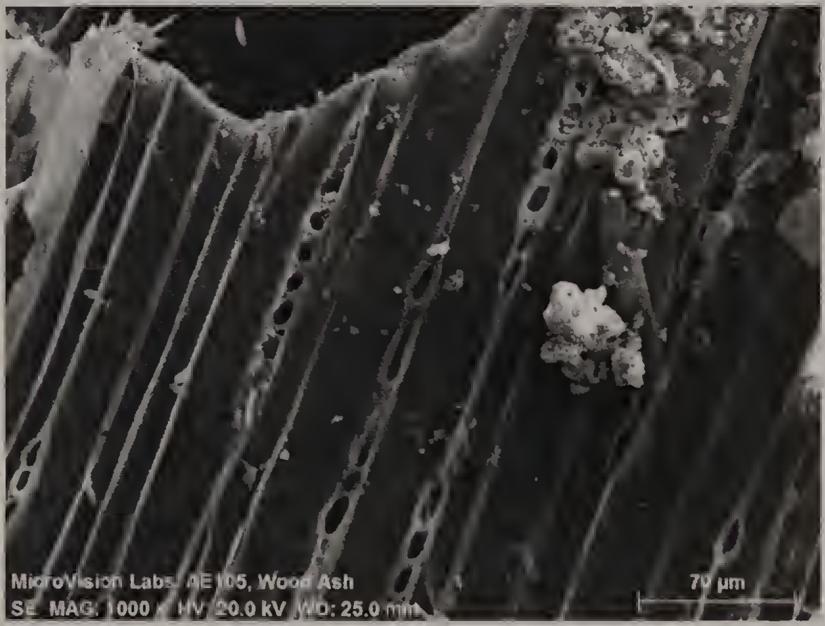
The EDS spectrum for this particle shows strong to moderate peak concentrations of carbon, oxygen, aluminum, and silicon with lower peak concentrations of sulfur, iron and copper. See Appendix B for the average composition EDS spectra of the coal ash detected in this sample.

Sample AE105 Urban Fill

The soil in this sample was a light brown color and contained one (1) suspect particle type. This particle type consisted of seven (7) friable, black grains approximately 1mm-2mm in length. The PLM examination indicated this particle type to be consistent with wood ash. The PLM and SEM photos show the cellular structure typical of wood still present in these grains.



Sample: AE105 Urban Fill, Wood Ash
PLM Image


MicroVision Labs, AE105, Wood Ash
SE MAG: 1000 x HV: 20.0 kV WD: 25.0 mm
70 µm

Sample: AE105 Urban Fill, Wood Ash
SEM Image

The EDS spectrum for this particle type shows peak concentrations of carbon, oxygen, and calcium. See Appendix C for the average composition EDS spectra of the wood ash detected in this sample.

Results Summary Table:

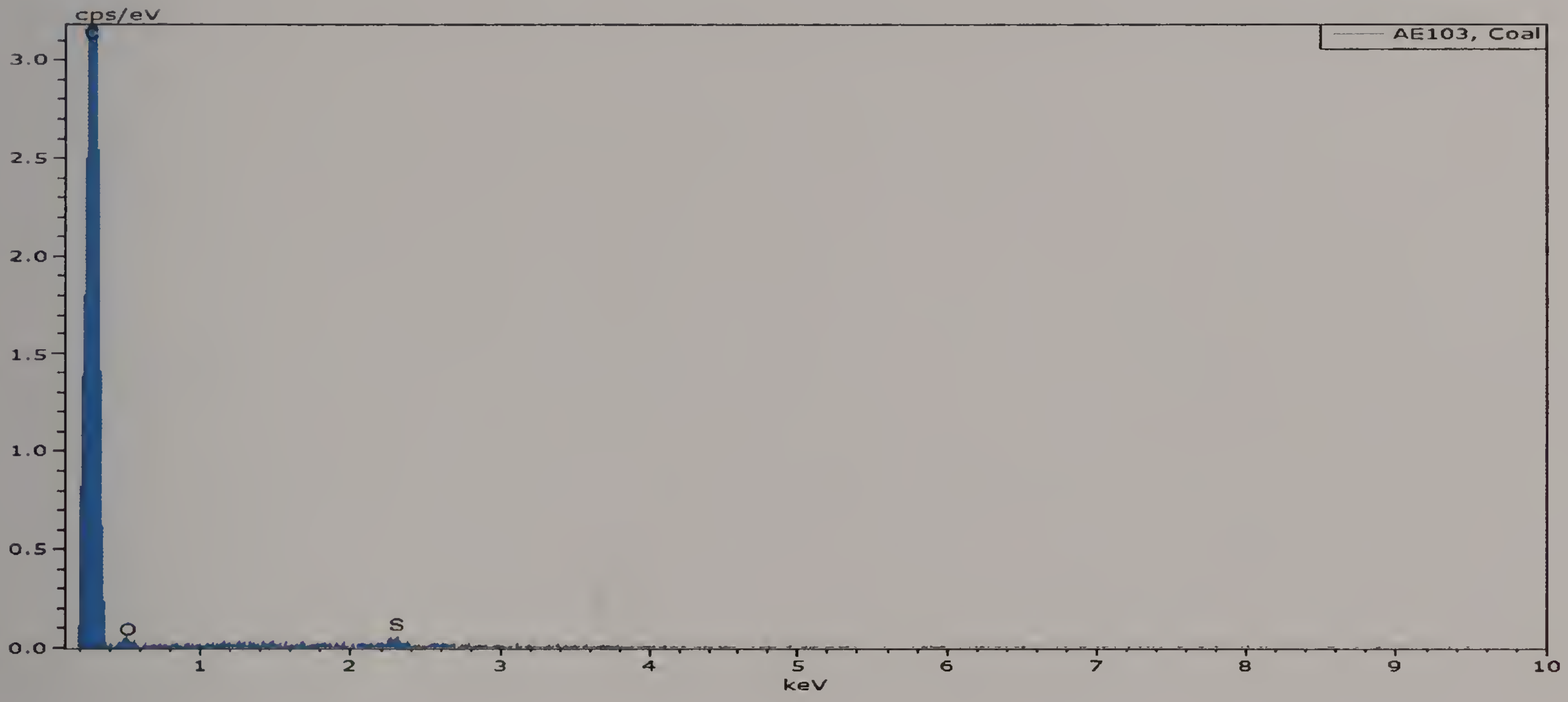
Sample Name	Material Detected
AE103 Urban Fill	**Coal (moderate), Coal Ash (heavy)**
AE105 Urban Fill	**Wood Ash (light)**

The concentrations of the particle types detected in these samples are listed in parenthesis in the table above and are based on the number of particles found and the relative difficultly in finding them. The concentration information is listed for informational purposes only and has no bearing on exemption status. Please let me know if you have any questions about this analysis or if there is anything else I can do for you.

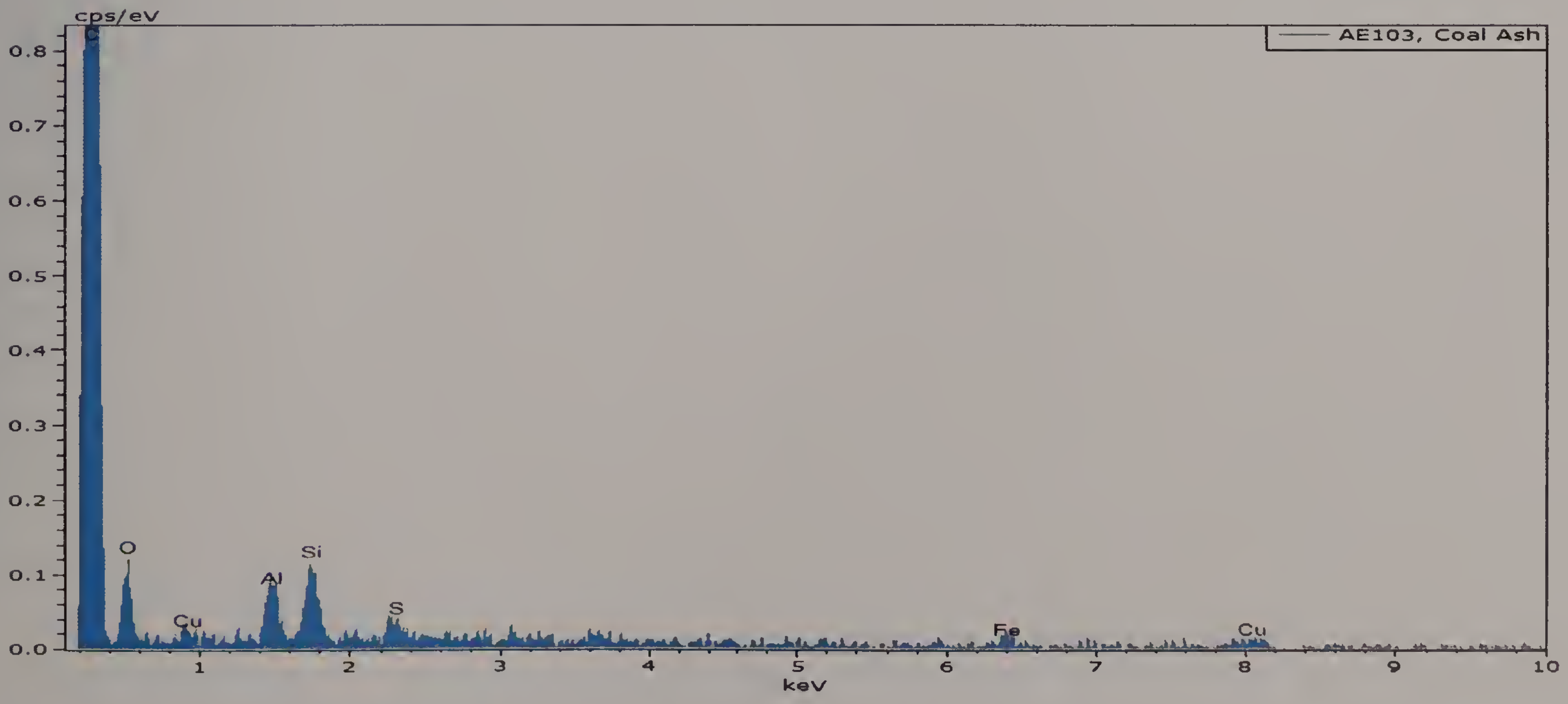
Sincerely,

Denise Weidler
Microscopist

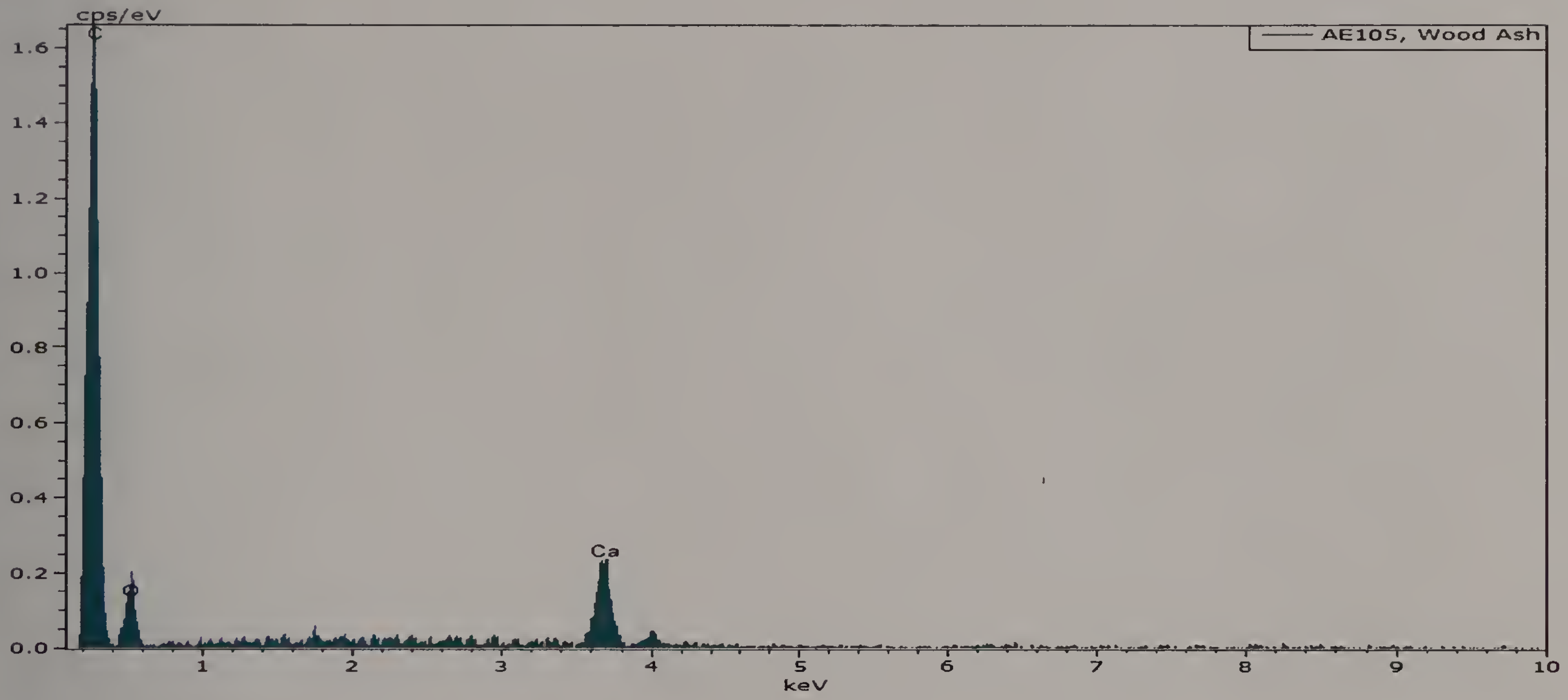
John H. Knowles
John H. Knowles
President



Appendix A, EDS Spectrum
Sample: AE103 Urban Fill, Coal



Appendix B, EDS Spectrum
Sample: AE103 Urban Fill, Coal Ash



Appendix C, EDS Spectrum
Sample: AE105 Urban Fill, Wood Ash

APPENDIX F

PUBLIC NOTIFICATION LETTERS

Clean Properties Inc.
Environmental Assessment & Cleanup

111 Boston Post Road, Suite 211
Sudbury, MA 01776
Phone 978-443-6622
Fax: 781-277-1540
Email public@CleanProperties.com

June 3, 2011

Hon. Joseph A. Curtatone, Mayor
City of Somerville
City Hall
93 Highland Avenue
Somerville, MA 02143

Re: Response Action Outcome (RAO) Statement
515 Somerville Avenue, Somerville, Massachusetts
RTN 3-28548 (ACOP-NE-09-3E009)
and
Partial Response Action Outcome (RAO) Statement
515 Somerville Avenue, Somerville, Massachusetts
RTN 3-23606 (ACOP-NE-09-3E009)

Dear Mayor Curtatone:

On behalf of World 115 Nominee Trust, the owner of the above-referenced property (Property), Clean Properties, Inc., is notifying you of the availability of a RAO for the above-referenced disposal site (RTN 3-28545) and a Partial RAO for the encompassing disposal site corresponding to the Property (RTN 3-23606), pursuant to the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000.

Copies of the complete submittal can be reviewed at the Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup, Northeast Regional Office, 205B Lowell Street, Wilmington, MA 01887. Copies of the submittal also are being field with the Public Involvement Plan (PIP) Document Repositories, including the Main Branch of the Somerville Public Library and the offices of Clean Properties, Inc., at 111 Boston Post Road, Suite 211, Sudbury, MA 01776.

The Class A-2 RAO documents the reduction of contaminant concentrations at the Site of RTN 3-28548 to MCP Method 1 Risk Criteria, and relies on the public way exemption to requirements for an Activity and Use Limitation (AUL) for a limited area of soil contamination beneath the bounding municipal sidewalk that exceeds Method 1 Soil S-1 Risk Criteria but meets applicable Soil S-3 Risk Criteria.

If you have any questions, please feel free to contact us at 978-443-6622.

Very truly yours,
CLEAN PROPERTIES, INC.

M J Berger

Marcia J. Berger, P.E., L.S.P.
President

cc: MassDEP

Clean Properties Inc.
Environmental Assessment & Cleanup

111 Boston Post Road, Suite 211
Sudbury, MA 01776
Phone: 978-443-6622
Fax: 781-577-1516
Email: public@CleanProperties.com

June 3, 2011

Ms Paulette Renault Caragianes, Director
Somerville Health Department
City Hall Annex
50 Evergreen Avenue
Somerville, MA 02143

Re: Response Action Outcome (RAO) Statement
515 Somerville Avenue, Somerville, Massachusetts
RTN 3-28548 (ACOP-NE-09-3E009)
and
Partial Response Action Outcome (RAO) Statement
515 Somerville Avenue, Somerville, Massachusetts
RTN 3-23606 (ACOP-NE-09-3E009)

Dear Director Renault Caragianes:

On behalf of World 115 Nominee Trust, the owner of the above-referenced property (Property), Clean Properties, Inc., is notifying you of the availability of a RAO for the above-referenced disposal site (RTN 3-28545) and a Partial RAO for the encompassing disposal site corresponding to the Property (RTN 3-23606), pursuant to the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000.

Copies of the complete submittal can be reviewed at the Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup, Northeast Regional Office, 205B Lowell Street, Wilmington, MA 01887. Copies of the submittal also are being field with the Public Involvement Plan (PIP) Document Repositories, including the Main Branch of the Somerville Public Library and the offices of Clean Properties, Inc., at 111 Boston Post Road, Suite 211, Sudbury, MA 01776.

The Class A-2 RAO documents the reduction of contaminant concentrations at the Site of RTN 3-28548 to MCP Method 1 Risk Criteria, and relies on the public way exemption to requirements for an Activity and Use Limitation (AUL) for a limited area of soil contamination beneath the bounding municipal sidewalk that exceeds Method 1 Soil S-1 Risk Criteria but meets applicable Soil S-3 Risk Criteria.

If you have any questions, please feel free to contact us at 978-443-6622.

Very truly yours,
CLEAN PROPERTIES, INC.

Marcia J. Berger, P.E., L.S.P.
President

cc: MassDEP

Clean Properties Inc.
Environmental Assessment & Cleanup

111 Boston Post Road, Suite 211
Sudbury, MA 01776
Phone: 978-443-6622
Fax: 781-577-1510
Email public@CleanProperties.com

June 3, 2011

Ms Monica R. Lamboy, Executive Director
Somerville Office of Strategic Planning & Community Development
City Hall
93 Highland Avenue
Somerville, MA 02143

Re: Response Action Outcome (RAO) Statement
515 Somerville Avenue, Somerville, Massachusetts
RTN 3-28548 (ACOP-NE-09-3E009)
and
Partial Response Action Outcome (RAO) Statement
515 Somerville Avenue, Somerville, Massachusetts
RTN 3-23606 (ACOP-NE-09-3E009)

Dear Executive Director Lamboy:

On behalf of World 115 Nominee Trust, the owner of the above-referenced property (Property), Clean Properties, Inc., is notifying you of the availability of a RAO for the above-referenced disposal site (RTN 3-28545) and a Partial RAO for the encompassing disposal site corresponding to the Property (RTN 3-23606), pursuant to the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000.

Copies of the complete submittal can be reviewed at the Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup, Northeast Regional Office, 205B Lowell Street, Wilmington, MA 01887. Copies of the submittal also are being field with the Public Involvement Plan (PIP) Document Repositories, including the Main Branch of the Somerville Public Library and the offices of Clean Properties, Inc., at 111 Boston Post Road, Suite 211, Sudbury, MA 01776.

The Class A-2 RAO documents the reduction of contaminant concentrations at the Site of RTN 3-28548 to MCP Method 1 Risk Criteria, and relies on the public way exemption to requirements for an Activity and Use Limitation (AUL) for a limited area of soil contamination beneath the bounding municipal sidewalk that exceeds Method 1 Soil S-1 Risk Criteria but meets applicable Soil S-3 Risk Criteria.

If you have any questions, please feel free to contact us at 978-443-6622.

Very truly yours,
CLEAN PROPERTIES, INC.

Marcia J. Berger, P.E., L.S.P.
President

cc: MassDEP

Clean Properties Inc.
Environmental Assessment & Cleanup

111 Boston Post Road. Suite 211
Sudbury. MA 01776
Phone: 978-443-6622
Fax 781-577-1510
Email public@CleanProperties.com

June 3, 2011

Distribution List
Public Involvement Plan (PIP)

Re: Response Action Outcome (RAO) Statement
515 Somerville Avenue, Somerville, Massachusetts
RTN 3-28548 (ACOP-NE-09-3E009)
and
Partial Response Action Outcome (RAO) Statement
515 Somerville Avenue, Somerville, Massachusetts
RTN 3-23606 (ACOP-NE-09-3E009)

Dear PIP Members:

On behalf of World 115 Nominee Trust, the owner of the above-referenced property (Property), Clean Properties, Inc., is notifying you of the availability of a RAO for the above-referenced disposal site (RTN 3-28545) and a Partial RAO for the encompassing disposal site corresponding to the Property (RTN 3-23606), pursuant to the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000.

Copies of the complete submittal can be reviewed at the Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup, Northeast Regional Office, 205B Lowell Street, Wilmington, MA 01887. Copies of the submittal also are being field with the Public Involvement Plan (PIP) Document Repositories, including the Main Branch of the Somerville Public Library and the offices of Clean Properties, Inc., at 111 Boston Post Road, Suite 211, Sudbury, MA 01776.

The Class A-2 RAO documents the reduction of contaminant concentrations at the Site of RTN 3-28548 to MCP Method 1 Risk Criteria but not to background levels. This letter serves as announcement of your opportunity to review the RAO Report. You will be notified soon of the scheduling of a PIP Meeting to discuss this milestone with you.

If you have any questions, please feel free to contact us at 978-443-6622.

Very truly yours,
CLEAN PROPERTIES, INC.

Marcia J. Berger, P.E., L.S.P.
President

cc: MassDEP